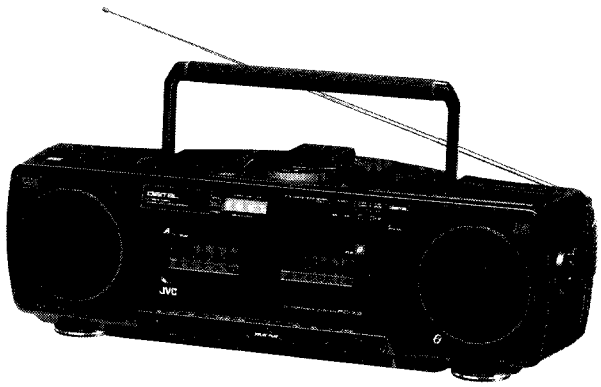
JVC

SERVICE MANUAL

CD PORTABLE SYSTEM

RC-X3 B/E/G



COMPACT disc DIGITAL AUDIO

Area Suffix	
B	U.K.
E	Continental Europe
G	W. Germany

Contents

		Page
1	Important for Laser Products	2
2	Safety Precautions	3
3	Features	4
4	Specifications	4
5	Names of Control and Their Functions	5
6	Location of Main Parts	6
7	Removal of Main Parts	7
8	Main Adjustment and Level Check	12
9	Standard Schematic Diagram (Tuner)	18
	Standard Schematic Diagram (Amplifier)	19
	Wiring Connections	20
	Standard Schematic Diagram (CD Control)	21
10	Location of P.C. Board Parts and Parts List	22
11	Location of P.C. Board and parts List (CD Control Board)	25
12	Block Diagram	27
13	Exploded View of Mechanism Assembly	30
14	Exploded View of Enclosure Assembly	32
15	Packing Illustration and Parts List	35
16	Accessories	Back Cover

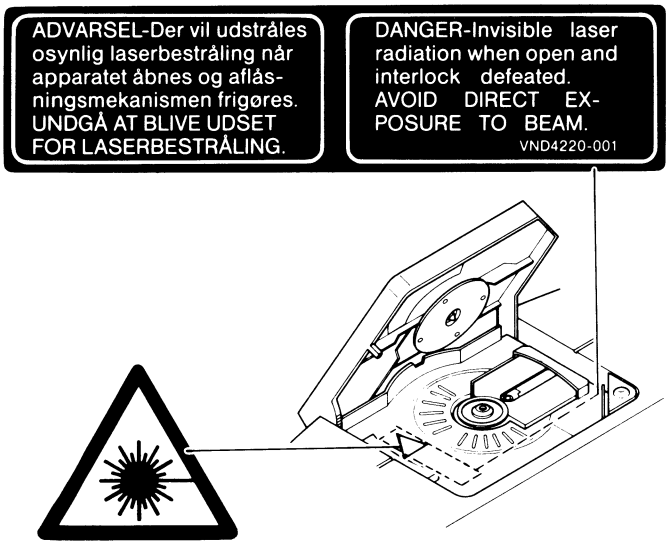
No. 1755
June 1988

1 Important for Laser Products

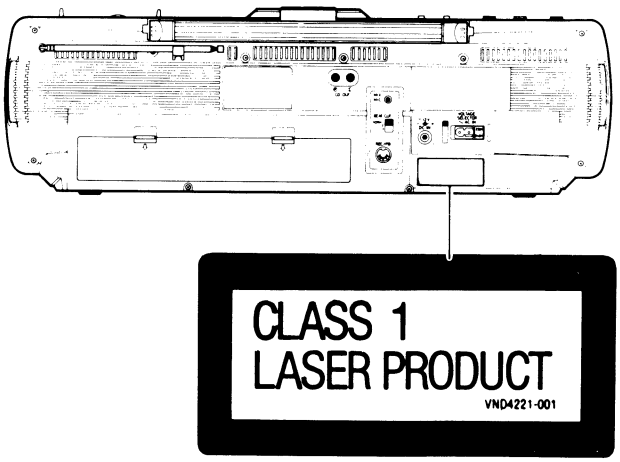
PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit, leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the disc holder is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

REPRODUCTION OF LABELS AND THEIR LOCATION


ADVARSEL-Der vil udstråles osynlig laserbestråling når apparatet åbnes og aflåsningsmekanismen frigøres. UNDGÅ AT BLIVE UDSET FOR LASERBESTRÅLING.
DANGER-Invisible laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.
VND4220-001

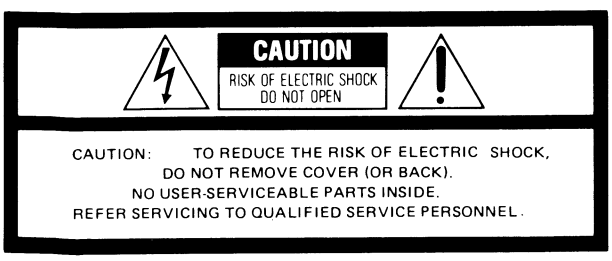
VAROITUS! Laite sisältää laserdiodin, joka lähettää näkymätätöntä silmille vaarallista lasersäteilya.



Obs:
Apparaten innehåller laser Komponent av höger laserklass än klass 1.

Warning

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

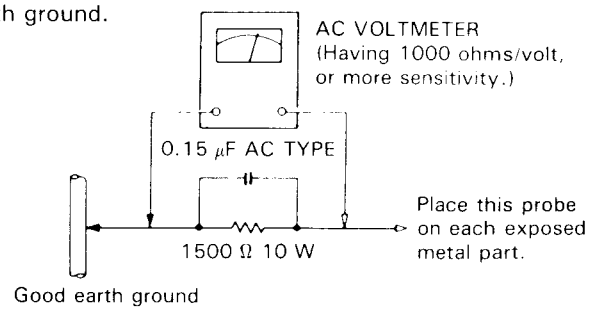

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

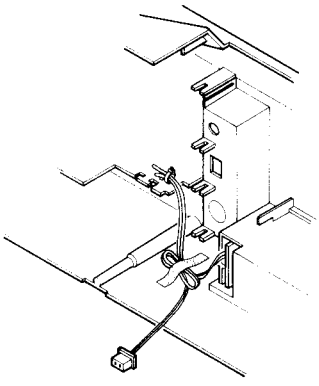
2 Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer or responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (⚠) on the schematic diagram and Parts List in Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List in Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).

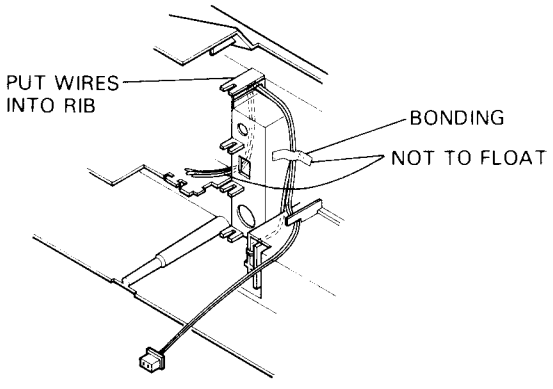

AC VOLTMETER
(Having 1000 ohms/volt, or more sensitivity.)
0.15 μF AC TYPE
1500 Ω 10 W
Place this probe on each exposed metal part.
Good earth ground

Warning

Please note that, as a safety precaution, the wirings of the power supply sections of RC-X3 and RC-X3 B/G are different, as shown in the illustration.



RC-X3 E



RC-X3 B/G

3 Features

1. Portable system incorporating multi-function CD player.
   - CD player with program play of up to 20 tunes/repeat play/random play/intro play function.
   - Digital LCD (Liquid Crystal Display) indicates the playback time of each tune and the number and total playback time of programmed tunes.
   - 8-cm (3-3/16'') ''CD singles'' capability.
2. Synchro-record start for CD recording convenience.
3. Double-cassette mechanism (Deck A for recording and playback, Deck B for playback).
   - Metal and CrO_2 tape can be played back, for superior tone quality.
   - Synchro start dubbing function (normal/high speed dubbing).
   - Relay playback (from Deck B to Deck A).
   - Microphone mixing facility during tape playback.
   - Full auto-stop mechanism.
4. Automatic level loudness control.
   - Dynamic sound reproduction of low level sound.
   - Clear sound reproduction with less distortion at high outputs.
5. CD OUT jacks.

4 Specifications

Compact disc player section

Type	: Compact disc player
Signal detection system	: Non-contact optical pickup (semiconductor laser)
Number of channels	: 2 channels (stereo)
Frequency response	: 20 Hz ~ 20,000 Hz
Signal-to-noise ratio	: 76 dB
Wow & flutter	: Less than measurable limit

Radio section

Frequency ranges	: FM 88 – 108 MHz SW 6 – 18 MHz MW 540 – 1600 kHz LW 150 – 350 kHz (B/E) 150 – 280 kHz (G)
Antennas	: Telescopic antenna for FM & SW Ferrite core antenna for MW & LW

Tape deck section

Track system	: 4-track 2-channel stereo
Motor	: Electronic governor DC motor for capstan
Heads	: Deck A; Hard permalloy head for recording/playback, 2 gap ferrite head for erasure Deck B; Hard permalloy head for playback
Frequency response	: 60 Hz – 14,000 Hz (with normal tape)
Signal-to-noise ratio	: 49 dB (weighted, at 1 kHz)
Wow & flutter	: 0.11% (WRMS)
Fast wind time	: Approx. 120 sec (C-60 cassette)

General

Speakers	: 12 cm (4-3/4'') full range x 2 (3 Ω)
Input terminal	: MIC x 1 (Min. Input level: 3 mV (– 50 dBv) Matching impedance: 200 Ω – 2 kΩ)
Output terminals	: CD OUT x 2 (1.0 V/4.3 kΩ) PHONES x 1 (Output level: 0 – 40 mW/32 Ω, Matching impedance: 8 Ω – 1 kΩ)
DIN socket (RC-X3 G)	: Min. input level; 0.6 mV/kΩ Input impedance; 9 kΩ Output level; 500 mV Output impedance; 6 kΩ
Power output	: 16 W (8 W + 8 W) at 3 Ω (Max.) 10 W (5 W + 5 W) at 3 Ω (10% THD)
Power sources	: AC 220 – 240 V/110 – 120 V, 50/60 Hz DC 12 V (''R20'' cells x 8)
(RC-X3 E only)	: Ext. DC IN 12 V (car battery via optional CN-332 car adapter)
Power consumption	: 27 watts
Dimensions	: 591(W) × 181(H) × 228(D) mm
Weight	: Approx. 4.9 kg without batteries
Accessory provided	: AC power cord

Design and specifications are subject to change without notice.

5 Names of Control and Their Functions

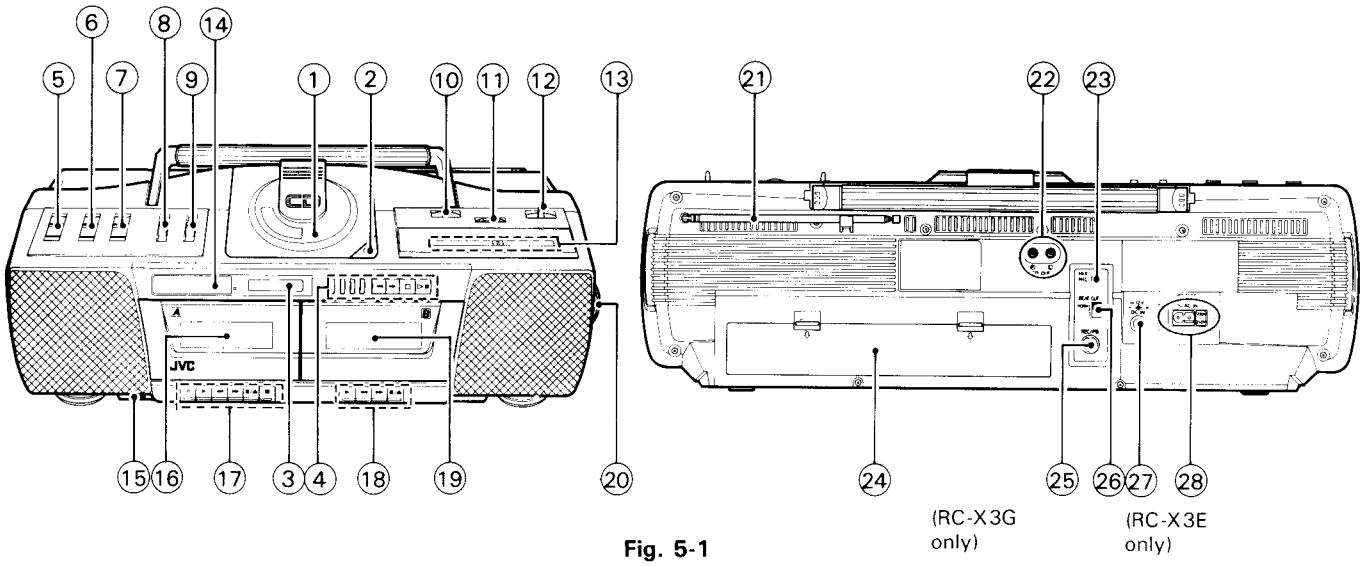


Fig. 5-1

(1) Disc holder
(2) Open button (Disk holder)
(3) Display window (CD player section)
(4) CD operation buttons
(5) POWER switch
(6) TAPE (PLAY) switch
Set this switch according to the type of tape to be used.
METAL/CrO_2: (playback only)
Set to this position to listen to a metal (type IV) or chrome (type II) tape.
NORMAL:
Set to this position to listen to a normal (type I) tape.
(7) FUNCTION switch
TAPE/DUBBING • NORMAL SPEED:
• HIGH SPEED:
Set to NORMAL SPEED when listening to a cassette or recording from the external microphone; also set to this position when dubbing at normal speed.
Set to HIGH SPEED when dubbing at high-speed.
RADIO
Set to this position when listening to or recording from the radio.
CD (RC-X3 B/E)
Set to this position when recording from or listening to a CD.
CD/DIN (RC-X3 G only)
Set to this position when recording from or listening to a CD player or a unit connected to the DIN jack on the rear panel. If the CD player and a unit connected to the DIN jack are both playing, and the FUNCTION switch is set to CD/DIN, their output sound will be mixed.
(8) TONE control
(9) VOLUME control
(10) FM MODE switch
STEREO: Set to this position when receiving FM stereo broadcasts.
MONO: Set to this position when FM stereo reception is obscured by noise.
(11) FINE TUNING knob
(12) BAND (LW/MW/SW/FM) switch
(13) Dial scale
(14) POWER indicator
(15) Headphones jack (PHONES) (3.5 mm dia. stereo mini)
Connect headphones (impedance 8 Ω – 1 kΩ) to this jack. The speakers are automatically switched off when headphones are connected.
(16) Cassette holder (Deck A)
(17) Cassette operation buttons (Deck A)
○ REC:
Press this button to start recording.
► PLAY:
Press to play to tape.
◄◄ REW:
Press to rewind the tape rapidly.
►► FF:
Press to wind the tape forward rapidly.
■ /⏏ STOP/EJECT:
Press to stop the tape. Pressing this button when the tape is stopped opens the cassette holder.
▮▮ PAUSE:
Press to stop the tape temporarily. Press again to release the pause mode.
(18) Cassette operation buttons (Deck B)
► PLAY:
Press to play the tape.
◄◄ REW:
Press to rewind the tape rapidly.
►► FF:
Press to wind the tape forward rapidly.
■ /⏏ STOP/EJECT:
Press to stop the tape. Pressing this button when the tape is stopped opens the cassette holder.
(19) Cassette holder (Deck B)
(20) TUNING knob
(21) Telescopic antenna for FM and SW
(22) CD OUT jacks
Connect to another stereo amplifier, etc. to listen to the CD sound from other equipment.
(23) MIX MIC jack (3.5 mm dia. mini)
When recording or mixing using a microphone, connect the microphone (with an impedance of 200 Ω to 2 kΩ) to this jack. The microphone sound is recorded monaurally.
(24) Battery compartment cover
(25) DIN jack (REC/PB) (RC-X3 G only)
(26) BEAT CUT switch (See page .)
(27) DC IN 12 V jack (−⊙+) (RC-X3 E only)
(28) VOLTAGE SELECTOR/AC IN (AC input) jack

6 Location of Main Parts

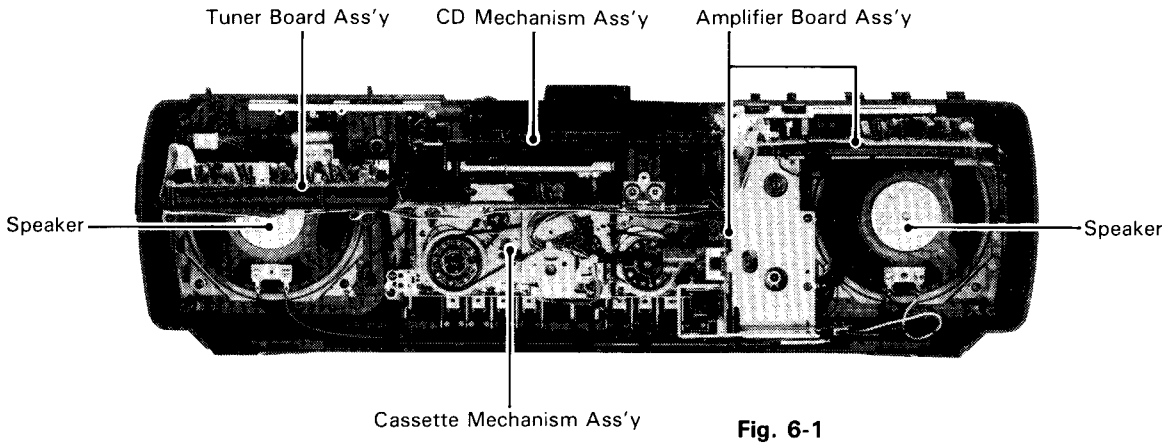


Fig. 6-1

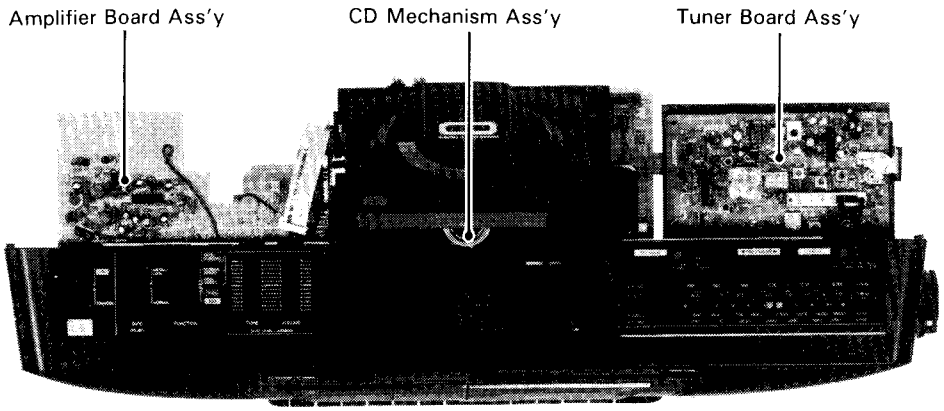


Fig. 6-2

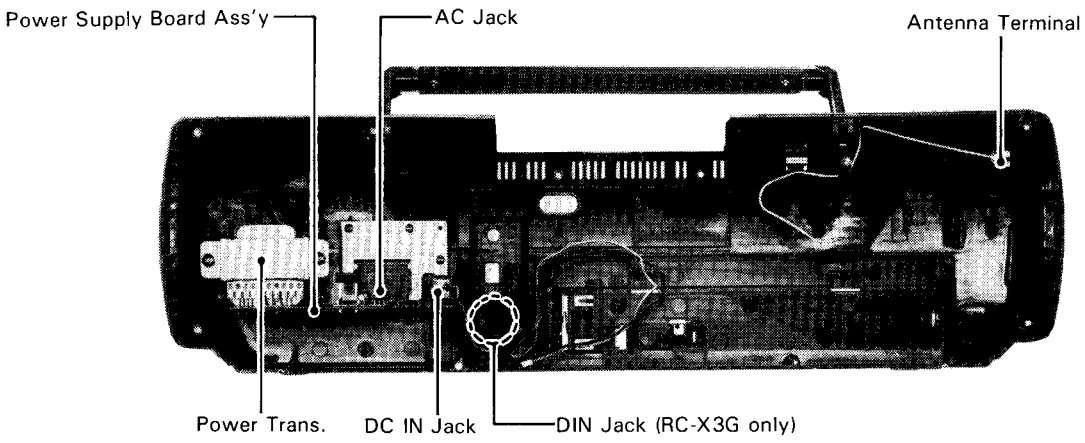


Fig. 6-3

7 Removal of Main Parts

■ Rear Cabinet Ass'y

1. Remove the ten screws ①, ② and ③, ④ and ⑤ retaining the Rear Cabinet Ass'y.
2. Pull off the Rear Cabinet Ass'y from the Front Cabinet Ass'y.
3. Remove the Connector (CN901) and the Antenna terminal (TP1) from Amplifier and Tuner Boards.

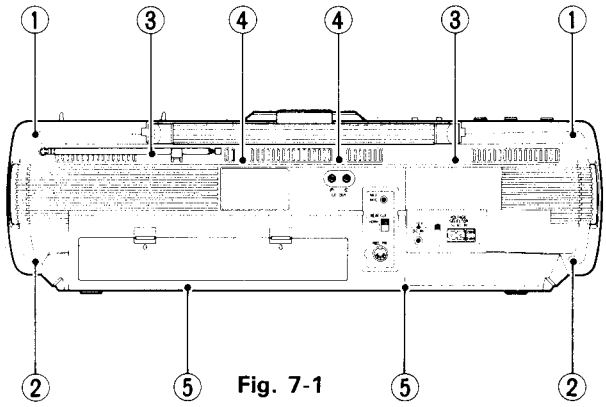


Fig. 7-1

■ CD Unit Ass'y

1. Remove two screws ⑥ and ⑦ retaining both Cassette door. (Fig. 7-2)
2. Remove two screws ⑧ retaining both cassette door, (Fig. 7-3).
3. Push CN-1 connector and remove two wires from Tuner Board Ass'y, and Amplifier Board Ass'y.
4. Pull CD unit forward to front.
5. Remove four screws ⑨ and ⑩ retaining CD Control Circuit Board Ass'y. (Fig. 7-3)

* Be careful not to touch or exert excessive pressure on the pickup section.

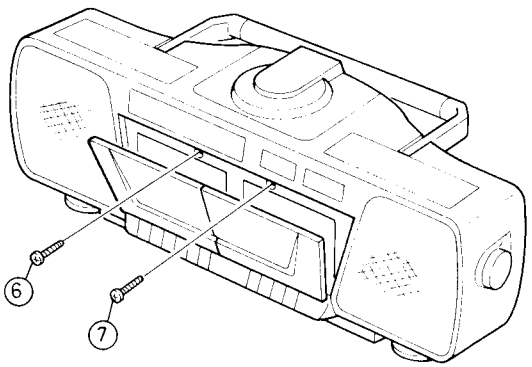


Fig. 7-2

■ CD Mechanism Ass'y

1. Remove CD unit from Front Cabinet Ass'y
2. Remove four screws ⑨ and ⑩ retaining CD Control Circuit Board Ass'y. (Fig. 7-3)
3. Remove four screws ㉗, ㉘ retaining CD Mechanism. (Fig. 7-4)

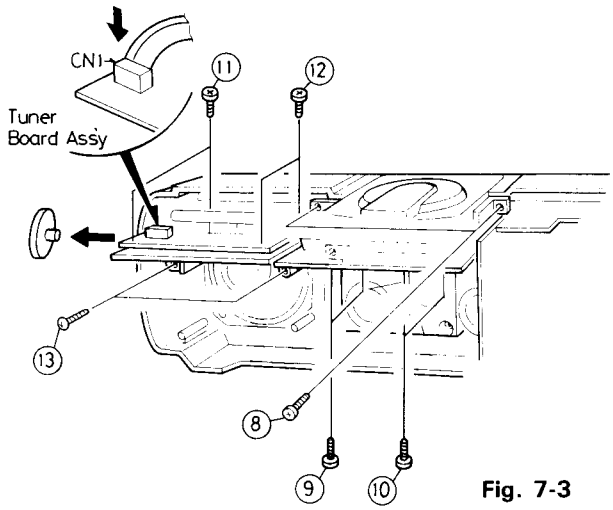


Fig. 7-3

■ Tuner Board Ass'y (Fig. 7-3)

1. Remove tuning knob.
2. Remove two screws ⑬ retaining front cabinet ass'y.
3. Pull out tuner board ass'y.
4. Remove the earth wire.
5. Remove four screws ⑪ and ⑫ retaining tuner chassis.

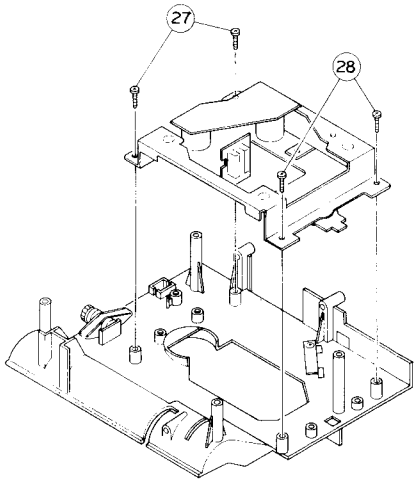


Fig. 7-4

■ Amplifier Board Ass'y (Fig. 7-5)

1. Remove three knobs (power, tape select, function) retaining unit.
2. Remove three screws ⑭ and ⑮ retaining front cabinet ass'y.
3. Remove two screws ⑯ and ⑰ retaining front cabinet.
4. Remove two connectors CN-701 and CN702 from amplifier board ass'y.

Warning
When replacing heads, be sure to turn the head wires of the A and B mechanisms two turns to the right before wiring.

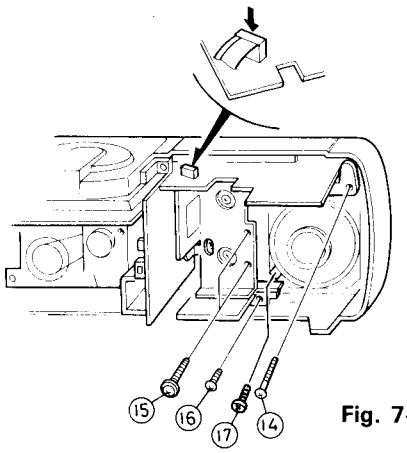


Fig. 7-5

■ Mechanism Ass'y

1. Remove three screws ⑱ and ⑲ retaining Mechanism B. (Fig. 7-6)
2. Remove two screws ⑳ and ㉑ retaining Mechanism B. (Fig. 7-7)
3. Remove two screws ㉒ retaining Mechanism A. (Fig. 7-8)

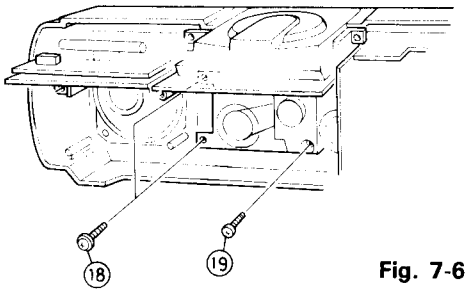


Fig. 7-6

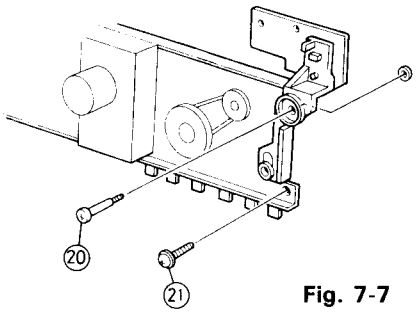


Fig. 7-7

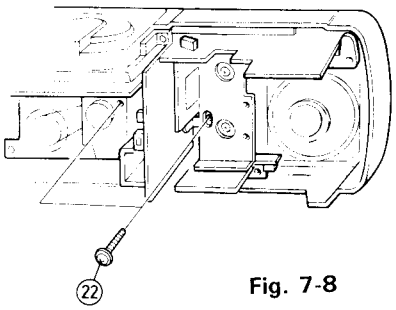


Fig. 7-8

■ Speaker Unit

1. Remove the CD unit Ass'y and the Tuner Board Ass'y and the Amplifier Board Ass'y.
2. Next, remove eight screws retaining Front Cabinet.

■ Power Supply Board Ass'y (Fig. 7-9)

1. Remove two screws ㉕ retaining power trans.
2. Next, remove three screws ㉖ retaining AC Socket.

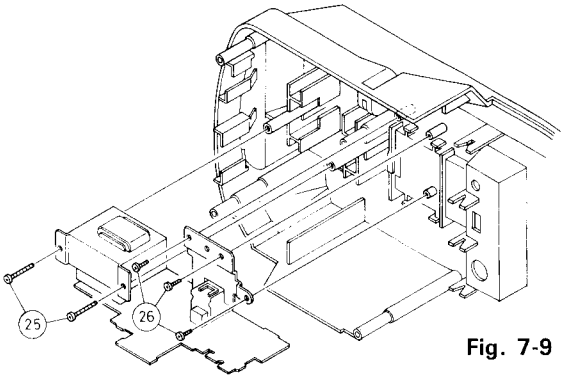


Fig. 7-9

■ CD Mechanism Section

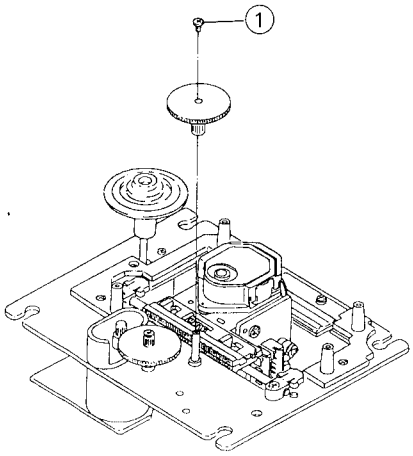


Fig. 7-10

1. Remove one screw ① retaining Gear.
2. Remove the Gear.
3. Remove the shaft stopper.
4. Pull up the pick up Ass'y and remove the Connector.

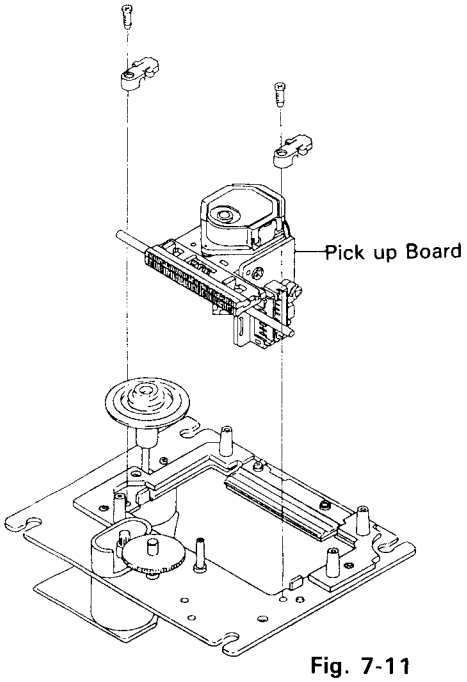


Fig. 7-11

Pick up replacement can be done without any adjustments.
Parts No. KSS-150B (H)-RS

* To lessen the effects of static electricity, the above part has a soldered bridge. Remove this soldered bridge before using the part.

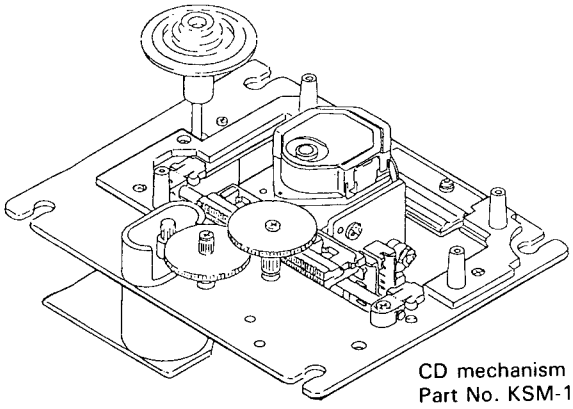


Fig. 7-12

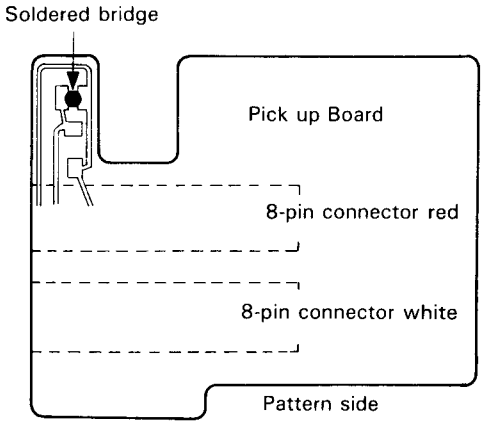


Fig. 7-13

■ Location of Machanism Parts

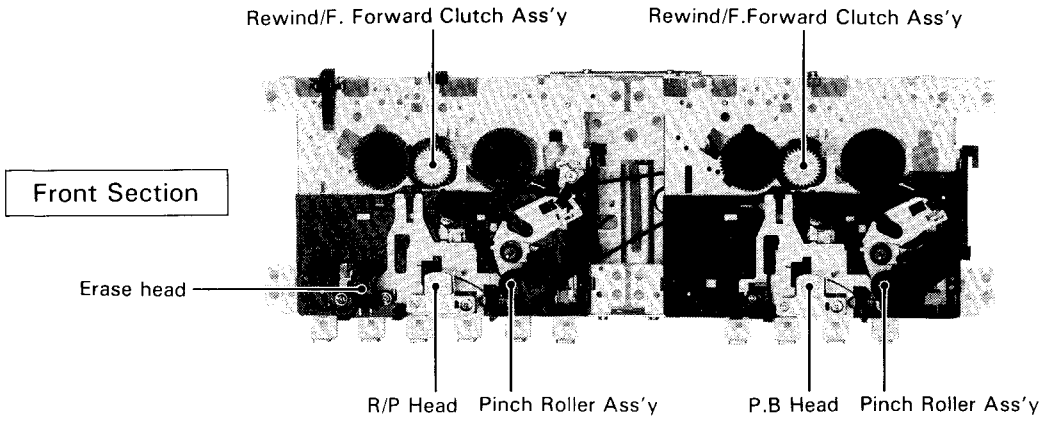


Fig. 7-14

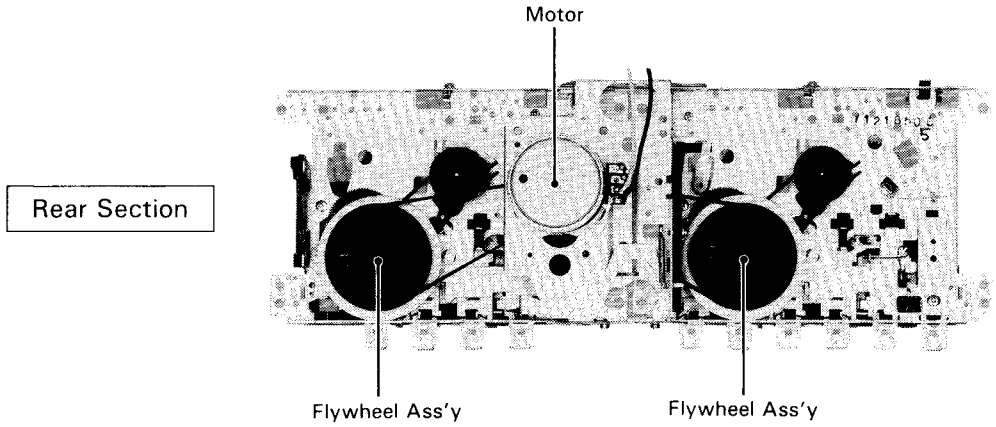


Fig. 7-15

■ **Motor bracket (Recording/playback deck)**

1) Remove the three screws (1).
2) Remove the chassis and Motor bracket from the button side.
   Then remove the bracket arm (panel).
   (The synchro arm can be removed from the pause lock. Return the pause lock after it is removed from the proper position.)

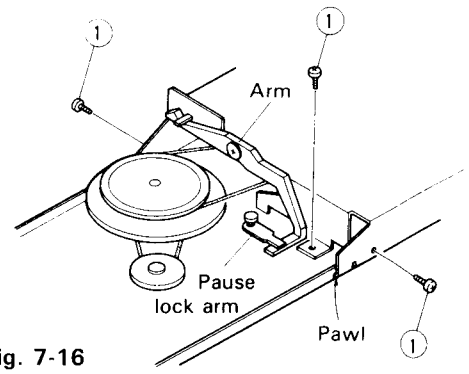


Fig. 7-16

■ **Head section**

1) Remove the record/playback head's mounting screw (2) and loosen screw (3).
2) Remove the erase head mounting screw (4) and (5).

■ **Pinch roller**

1) Remove the pinch roller arm stopper (6).

■ **Flywheel ass'y**

1) Remove the C washer (7) securing the capstan shaft.
2) Pull out the flywheel ass'y.

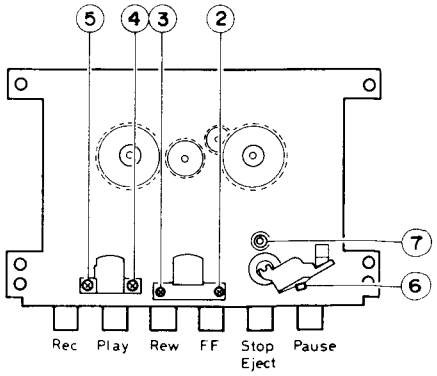


Fig. 7-17

■ **Removal of the button ass'y from the mechanical chassis.**

- Removing the leaf switch
  To remove the leaf switch (Play) attached to the mechanism assembly, insert a small tweezers or similar instrument between the chassis guide section and the hooks and simultaneously release the hooks. Then pull up the leaf switch.
  Caution
  • Removing only one hook could damage the leaf switch.

- Gear (Below the flywheel)
  Remove the C washer (1) securing the gear.
  For reassembly, insert the Sensing Lever arm stand into the (4) section.

- Lock arm
  Press the arm stopper from window (3), and pull to remove.

- Chassis removal
  1) Remove the three (5), (6), and (7) springs.
  2) Remove the two screws (2).
  3) Remove the two screws (8) securing the capstan metal.
  4) Gently remove the button ass'y from the chassis.

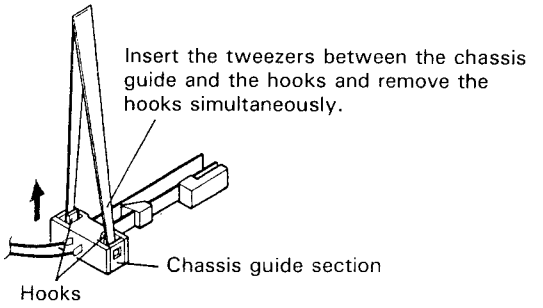

Insert the tweezers between the chassis guide and the hooks and remove the hooks simultaneously.
Chassis guide section
Hooks

Fig. 7-18

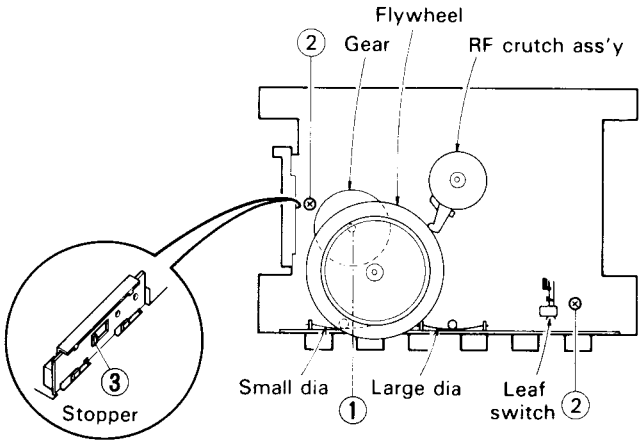


Fig. 7-19

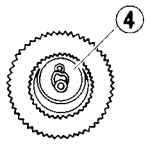


Fig. 7-20

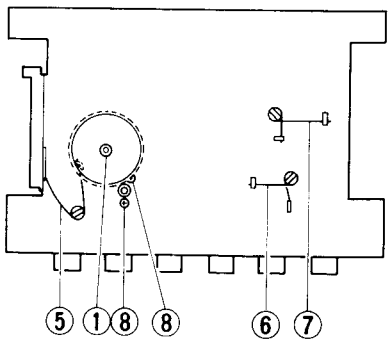


Fig. 7-21

8 Main Adjustment and Level Check

■ Amplifier adjustments

Conditions

Power supply voltages : AC 110~120/220~240 V
DC 12 V (from battery)

Input levels : CD OUT −11 dBs
EXT MIC −8 dBs
DIN IN −8 dB

Output levels : Speaker 0 dBs = 0.775 V/3 Ω
CD OUT 1.0 V(+2 dBs)/47 kΩ
DIN OUT 500 mV (−3.8 dBs)/47 kΩ
...G version only
Headphones −11 dBs = 0.215 V/32 Ω

Tone controls : High

Tape select : Normal

Tapes used : Recording normal tape TS-8 (UR)
chrome tape TS-6
metal tape TS-7

Item	Tape used	Adjustment/check method	Condition	Adjustment location
Head azimuth adjustment	VTT703 (10 kHz)	Playback the VTT703 test tape for both A and B decks and adjust the screw in front of the head for the tape running direction so that the minimum phase difference is within 2 dB of peak.	Tape/normal speed	Left side screw of PB or R/P Head
Tape speed adjustment	VTT712 (3 kHz)	Playback the B deck at the position where test tape VTT712 has ended and adjust VR85 so that the speed meter value is within 3000±10 Hz.	Tape/Normal speed	VR851
		Play the VT712 to the end position and confirm that between 5150 and 5500 Hz are obtained with the B deck in the Playback condition and the A deck in record condition.	High Speed	Confirming
Checking wow & flutter	VTT712 (3 kHz)	Playback the VTT712 test tape with A and B decks and confirm that the wow & flutter value is less than 0.35% of JIS, RMS.	Tape/Normal speed	Confirming
Playback output level	VTT724 (1 kHz)	Playback the VTT724 test tape and confirm that Line-out is −8 dBs±3 dB. Also make sure at this time that the L.R. deviation is within 1.5 dB.	Tape/Normal	
Confirming playback frequency characteristics	VTT739	With respect to their outputs at 1 kHz, the outputs at Speaker Terminal (add dummy resistor of 3 Ω) should be 11± 4 dB at 63 Hz, and 3 ± 4 dB at 10 kHz. (The Chrom/Metal Position should be −4 dB±2 dB in response to normal tape.)	Deck B playback Tape/Normal	
Recording bias frequency	(TS-8) Normal tape	Set beat cut switch S271 to position 1 and adjust the oscillating frequency to 68 ± 1 kHz with L721. (Connect a 1 MΩ resistor in series when measuring.)	S721 (Beat cut) 1 : 68 kHz 2 : 66 kHz 3 : 70 kHz	L721
Rec/Play frequency characteristics	(TS-8) Normal tape	With respect to their CD OUT at 1 kHz −20 dB Confirmate output level 9±4 dB (Rec/PB) at 100 Hz, and 3±4 dB at 10 kHz	Deck B	During repairs, if the R727 resistance is cut, 10 kHz will rise. If the R726 resistance is cut, 10 kHz will fall.
Dubbing check	(TS-8) Normal tape VTT739	Regarding the outputs at 1 kHz, insert a VTT739 test tape for the output at mechanism A and a TS-8 Normal Tape for the output at mechanism B and carry out according to the hi-speed dubbing order. With 1 kHz as standard, the output should be +12±4 dB at 63 kHz and +3±4 dB at 10 kHz.		

■ Tuner Section

Basic Conditions:

Power Source of the Receiver : DC 12 V or AC 120 V
Tuner Section : 6.85 V
Load Resistance of the Receiver : 50 mW (0.39 V)/3 Ω
Modulation of SSG : AM — 400 Hz, 30%
FM — 400 Hz 22.5 kHz Devi.

■ Location of Adjustment

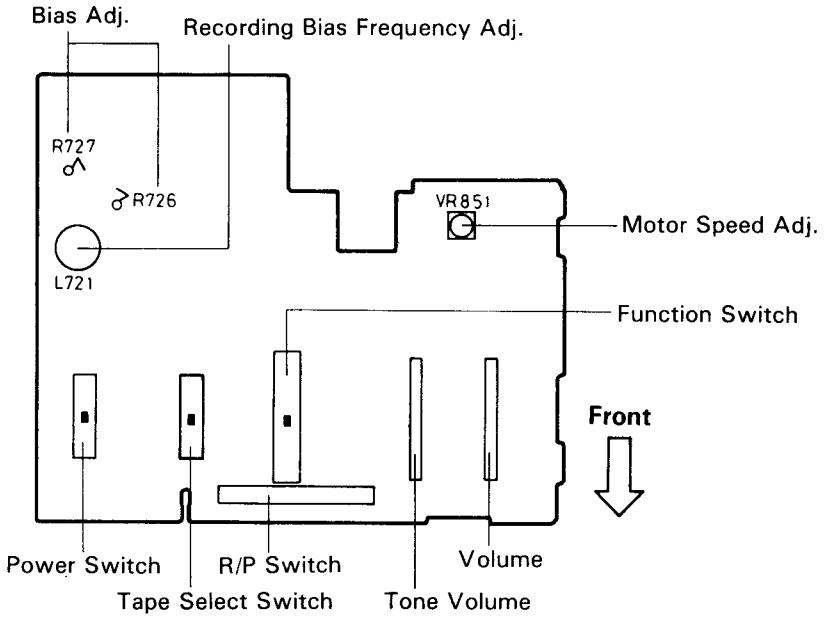


Fig. 8-1

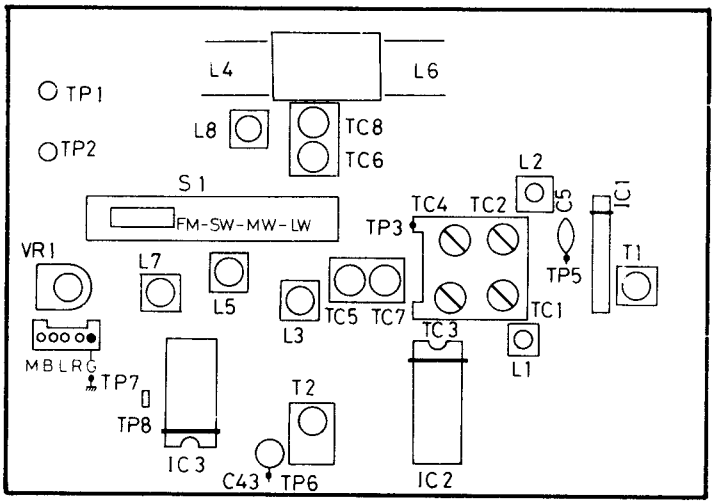
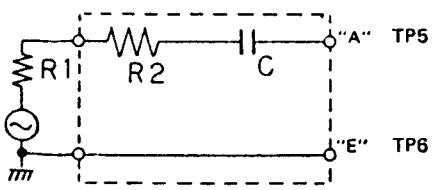


Fig. 8-2

Dummy Antenna



FM : $R_1 + R_2 = 75\ \Omega$, C = 0
R_1 : Output impedance of S.S.G.
SW : $R_1 + R_2 = 80\ \Omega$
C = 10P

Loop Antenna

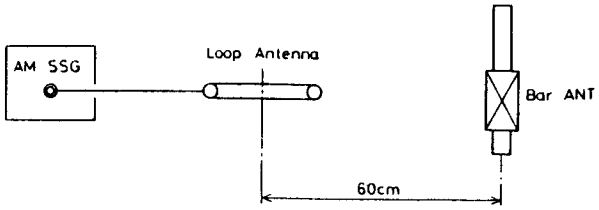


Fig. 8-3

■ Tuner Alignment

Item	Description
1. AM IF ALIGNMENT	
1-1 Conditions of the receiver	Since AMIF on this set is non-aligning, alignment of AMIF should not be carried out as a rule. When alignment is necessary after repairs, for example, follow the steps outlined below.
(1) Power source:	DC 6.85 V (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.)
(2) Function switch position:	RADIO
(3) Band select switch:	AM
(4) Volume control:	Minimum gain position
(5) Variable capacitor:	Near the minimum capacity position where no signal comes in.
1-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP3
(2) Tuner output:	Positive side to TP6 (IF out) Negative side to TP7 (GND)
1-3 Aligning position:	T3
1-4 Alignment (Waveform):	Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical waveform can be obtained. In this case, the wavehead should be appeared at the center marker (450 kHz) on the scope of Sweeper.
2. FM IF ALIGNMENT	
2-1 Conditions of the receiver	Since FMIF on this set is aligning, alignment of FMIF should not be carried out as a rule. When alignment is necessary after repairs, for example, follow the steps outlined below.
(1) Power source:	Same as mentioned in item 1-1
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	Minimum gain position
(5) Variable capacitor:	Near the minimum capacity position where no signal comes in.
2-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP5
(2) Tuner output:	Positive side to TP6 (IF out) Negative side to TP7 (GND)
Note: a) Attach a capacitor (30 pF) and a resistor (30 kΩ) to the positive side cable which shall be led from Sweeper output. Attach a resistor (100 kΩ) in series to the positive side cable which shall be led from Sweeper iutput.	
3. AM RF ALIGNMENT	
3-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Volume control:	maximum
(3) Variable capacitor:	Refer to the following list shown in item 3-3.
3-2 Conditions of SSG.	
(1) Modulation:	Refer to the basic condition
(2) Frequency:	Refer to the following list shown in item 3-3.
(3) Output level of the attenuator in SSG:	Approx. 50 mW
3-3 Power output measuring position:	Speaker terminals
3-4 Alignment:	

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Adjusting Position
1	LW	Loop Antenna	145 kHz	Max. capacity	L3
2			360 kHz (290 Hz G Version only)	Min. capacity	TC-3
3			Adjust the above aligning position (L3 & TC-3) repeatedly so that the tuner can be received above frequency range (band width).		
4			145 kHz	to be received 145 kHz	L4
5			360 kHz (290 Hz G Version only)	to be received 360 kHz (290 kHz RC-X3G only)	TC-4
6			Adjust the above aligning position (L4 & TC-4) repeatedly so that the tuner can be obtained the best sensitivity.		
7	MW	Loop Antenna	520 kHz	Max. capacity	L5
8			1650 kHz	Min. capacity	TC-5
9			Adjust the above aligning position (L5 & TC-5) repeatedly so that the tuner can be received above frequency range (band width).		
10			600 kHz	to be received 600 kHz	L6
11			1400 kHz	to be received 1400 kHz	TC-6
12			Adjust the above aligning position (L6 & TC-6) repeatedly so that the tuner can be obtained the best sensitivity.		
13	SW	Dummy Antenna	5.8 MHz	Max. capacity	L7
14			18.6 MHz	Min. capacity	TC-7
15			Adjust the above aligning position (L7 & TC-7) repeatedly so that the tuner can be received above frequency range (band width).		
16			6.0 MHz	to be received 6.0 MHz	L8
17			18.0 MHz	to be received 18.0 MHz	TC-8
18			Adjust the above aligning position (L8 & TC-8) repeatedly so that the tuner can be obtained the best sensitivity.		

FM RF Adjustment

(1) Power source: Same as mentioned in item 1.
(2) Function switch position: TUNER
(3) Band select switch: FM
(4) Volume control: 50 mW
(5) Variable capacitor: Refer the following list shown in item FM Tracking Adj.
(6) Modulation: Refer the basic condition
(7) Frequency: Refer the following list shown in item FM Tracking Adj.
(8) Output level of the attenuator in FM SSG: The level shall be decided by the load resistance of the receiver mentioned in the basic conditions.

■ FM Tracking Adjustment

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Adjusting Position
1	FM	Dummy Antenna	87.5 MHz 87.5±0.1 MHz (G only)	Max. capacity	L1
2			109.0 MHz (108.3± 0.05 MHz G only)	Min. capacity	TC-1
3			Ajust the above aligning position (L1 & TC-1) repeatedly so that the tuner can be received above frequency range (band width).		
4			90 MHz	to be received 90 MHz	L2
5			106 MHz	to be received 106 MHz	TC-2
6			Adjust the above aligning position (L2 & TC-2) repeatedly so that the tuner can be obtained the best sensitivity.		

■ FM MPX ALIGNMENT

(1) Input Position : TP-1 (ANTENNA)
TP-2 (GND)
(2) Input Frequency : 98 MHz (60 dB Non Modulation)
(3) Alignment method : Connect TP-3 to the plus side of the frequency counter and TP-7 to the ground side of the frequency counter and then use VR-1 to align to 19 kHz±100 Hz. After inserting 100 kΩ in the series and using a voltmeter to amplify, input to the frequency counter.

■ CD Player Adjustment

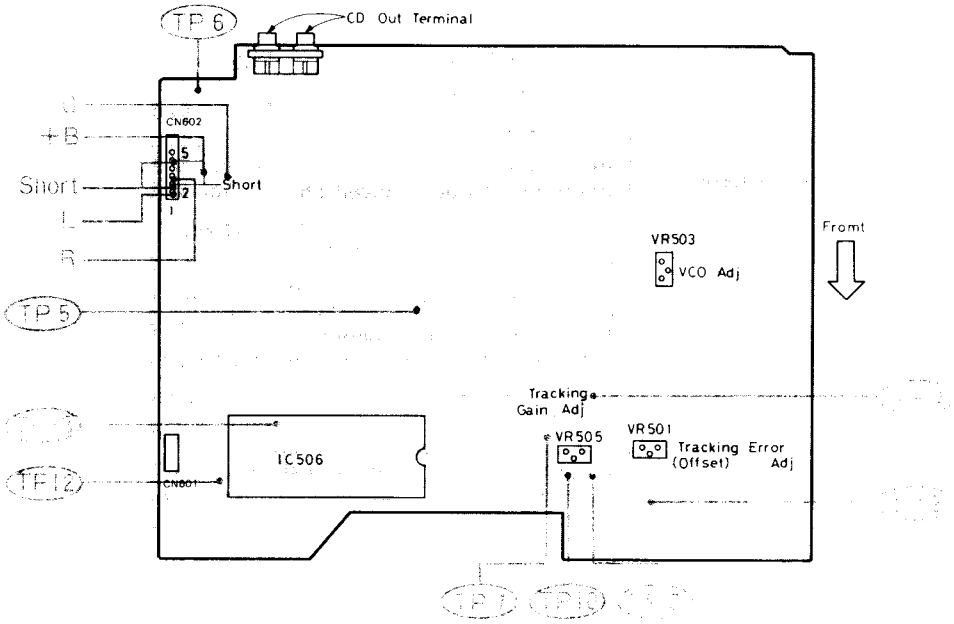


Fig. 8-4

CD Unit

A "CD unit" is an Ass'y combination of the CD mechanism (KSM-150BA-A part no. KSM-150B-AJRS) and the CD board (VMW1176). Service personnel call this Ass'y a CD unit.

(1) When a stable DC power source is used, connect the GND of FW4 (5) and FW4 (2).
(2) The audio output's load resistance is 47 kΩ.
Monitoring from the CD OUT terminal is also possible.
(3) When a disc is to be inserted, first remove the set's magnet clamper.
(4) Short circuit the S609 OPEN/CLOSE switch.
When CN601 (1) (2) are shorted, TOC reading will begin.

Adjustment procedure

(1) VCO free run adjustment (IF VCO free run adjustment is improper, TOC cannot be read.)

■ Adjustment tool: Frequency counter

1) Short circuit have TP7 (IC501 (26) terminal = ASY) and TP6 (D-GND).
2) Connect TP5 (IC503 (70) terminal = PLCK) to the frequency counter's hot lead, and TP6 to GND.
3) Adjust VR503 to 4450±10 kHz.

(2) Tracking offset adjustment

■ Adjustment tools: Oscilloscope and a normal disc

1) Connect a MA165 diode to either TP13 [pin (22) of IC506 (CPU)] or TP12 [Pin (33) of IC506].
2) Connect TP3 (IC501 (20) terminal = TE) to the oscilloscope's hot lead, and TP2 to GND.
3) Playback a normal disc.
4) Connect TP4 (IC502 (3) terminal = TE) and TP2 (IC501 (14) terminal = VR).
5) Adjust VR501 so the DC level of the tracking error signal (oscilloscope waveform) becomes zero.

Note: Adjust VR501 so that the top and bottom are symmetric while the waveform is at the zero level. The oscilloscope is to be a DC combination.

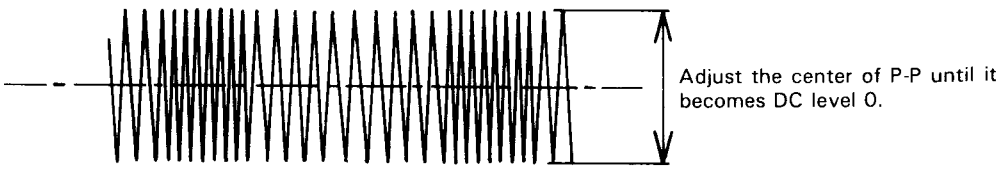


Fig. 8-5

■ CD Player Adjustment

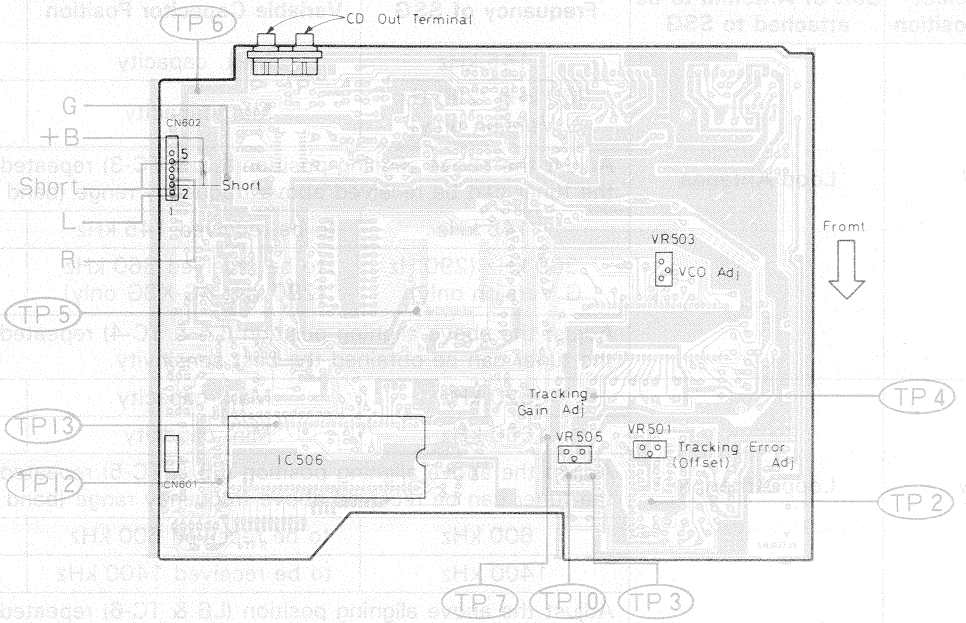


Fig. 8-4

CD Unit

A "CD unit" is an Ass'y combination of the CD mechanism (KSM-150BA-A part no. KSM-150B-AJRS) and the CD board (VMW1176). Service personnel call this Ass'y a CD unit.

(1) When a stable DC power source is used, connect the GND of FW4 (5) and FW4 (2).
(2) The audio output's load resistance is 47 kΩ.
Monitoring from the CD OUT terminal is also possible.
(3) When a disc is to be inserted, first remove the set's magnet clamper.
(4) Short circuit the S609 OPEN/CLOSE switch.
When CN601 (1) (2) are shorted, TOC reading will begin.

Adjustment procedure

(1) VCO free run adjustment (IF VCO free run adjustment is improper, TOC cannot be read.)

■ Adjustment tool: Frequency counter

1) Short circuit have TP7 (IC501 (26) terminal = ASY) and TP6 (D-GND).
2) Connect TP5 (IC503 (70) terminal = PLCK) to the frequency counter's hot lead, and TP6 to GND.
3) Adjust VR503 to 4450±10 kHz.

(2) Tracking offset adjustment

■ Adjustment tools: Oscilloscope and a normal disc

1) Connect a MA165 diode to either TP13 [pin (22) of IC506 (CPU)] or TP12 [Pin (33) of IC506].
2) Connect TP3 (IC501 (20) terminal = TE) to the oscilloscope's hot lead, and TP2 to GND.
3) Playback a normal disc.
4) Connect TP4 (IC502 (3) terminal = TE) and TP2 (IC501 (14) terminal = VR).
5) Adjust VR501 so the DC level of the tracking error signal (oscilloscope waveform) becomes zero.

Note: Adjust VR501 so that the top and bottom are symmetric while the waveform is at the zero level. The oscilloscope is to be a DC combination.

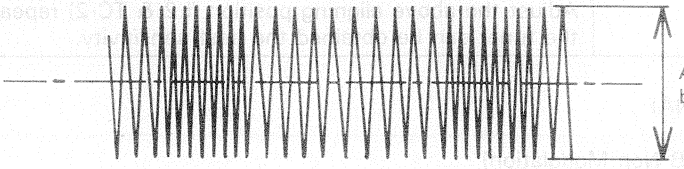
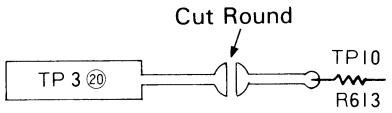


Fig. 8-5

(3) Tracking gain adjustment

■ **Adjustment tools: 2-needle vacuum tube voltmeter, oscillator, measuring jig, normal disc**

1) There is a pattern cut round between TP3 (IC501 ⑳ terminal) and TP10 R613. Remove the solder and connect the measuring jig to both ends.
2) Set the oscillator's output at 1.1 kHz, 180 mVRMS.
3) Playback a normal disc.
4) Adjust VR505 so that it matches the output level of the measuring jig.



If proper adjustment cannot be made (with the jig or measuring instrument, etc.), center VR505 mechanically.

CD pickup maintenance

(1) Check the service life of the laser diode.

a. Insert the disc and turn on the power.
b. Press the PLAY button (S601) to playback a track.
c. Use an oscilloscope to measure the RF output. If it is 0.6 VP-P or lower, wipe the objective lens with a cotton swab. Do the measurement again. If the RF output is 0.6 VP-P or lower, the laser diode needs to be replaced. Replace it when replacing the pickup.
d. If the RF output is higher than the above values, measure the voltage of both ends of R507 (10 Ω) mounted on the board. If it is 1.2 V or higher, replace the pickup.
* To obtain a diagnosis, do steps c and d.

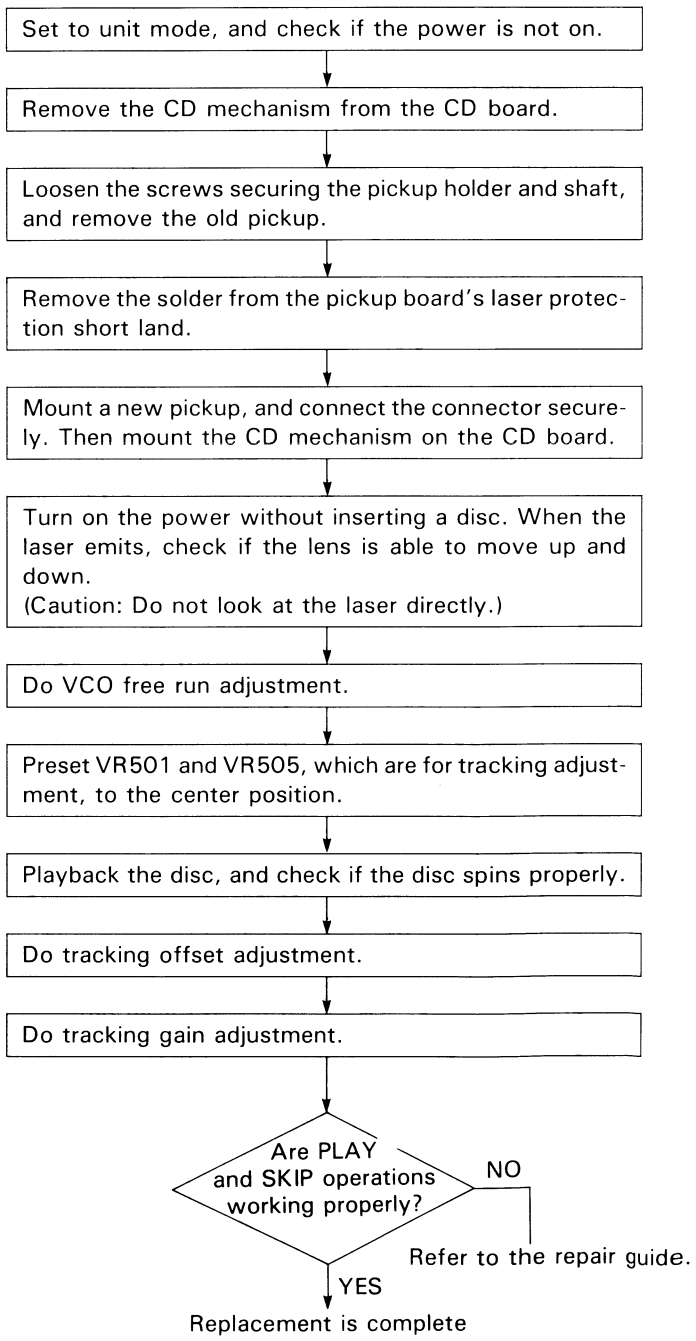
(2) Semi-fixed resistor on the APC board

The semi-fixed resistor on the APC board mounted on the pickup is for adjusting the laser power. This adjustment is done in pairs according to the optical block characteristics. Therefore, do not touch the semi-fixed resistor.
If the laser power is low, it is due to the laser diode. Pickup replacement will be necessary. If a semi-fixed resistor of a normal pickup is turned, the pickup may be damaged due to excessive voltage.

(3) Grading adjustment

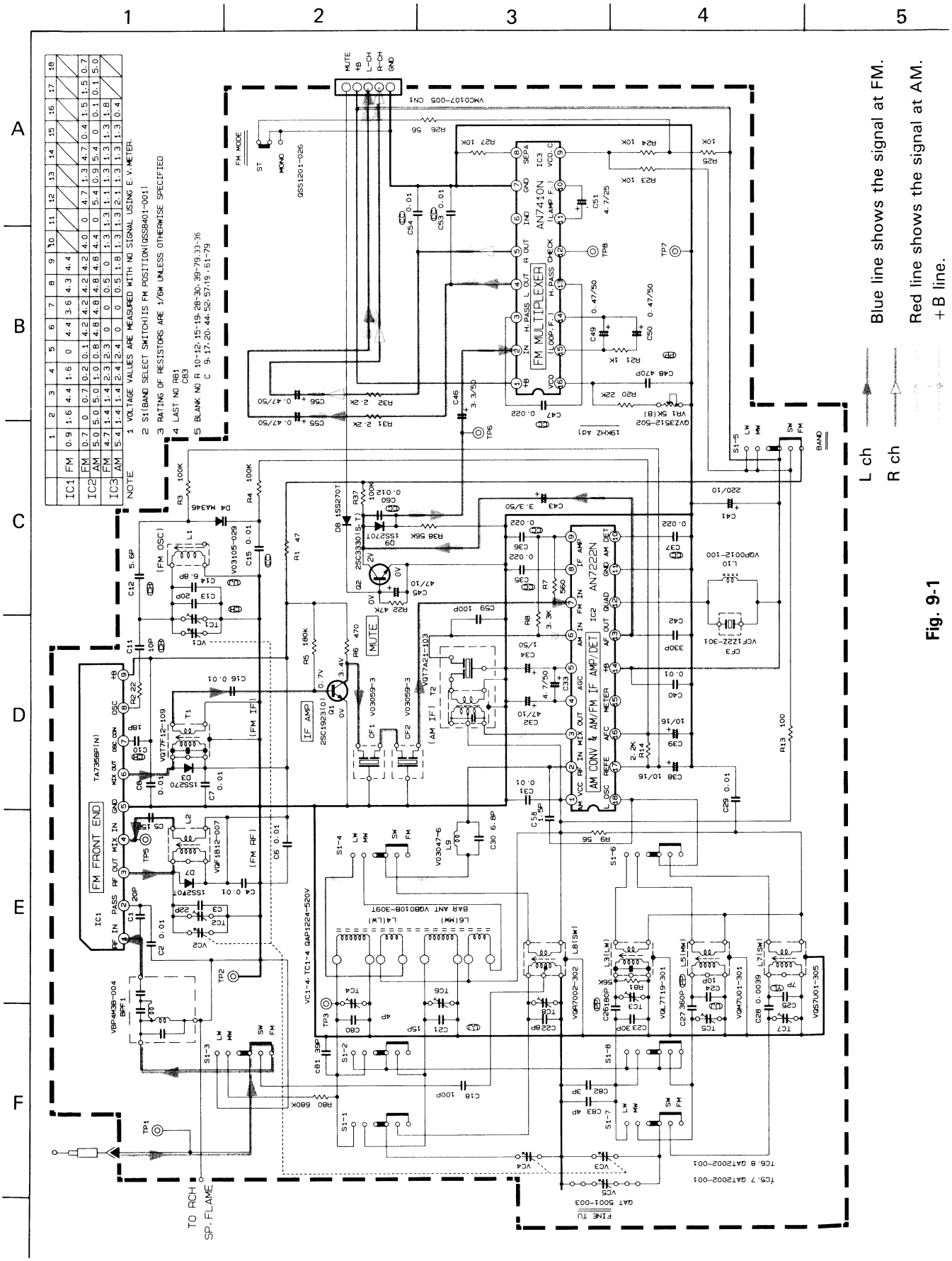
Grading adjustment is done part-by-part to obtain the best adjustment.
If the adjustment is off, playback will be impossible because the laser beam will go to incorrect tracks.

Pickup replacement procedure.


Set to unit mode, and check if the power is not on.
Remove the CD mechanism from the CD board.
Loosen the screws securing the pickup holder and shaft, and remove the old pickup.
Remove the solder from the pickup board's laser protection short land.
Mount a new pickup, and connect the connector securely. Then mount the CD mechanism on the CD board.
Turn on the power without inserting a disc. When the laser emits, check if the lens is able to move up and down.
(Caution: Do not look at the laser directly.)
Do VCO free run adjustment.
Preset VR501 and VR505, which are for tracking adjustment, to the center position.
Playback the disc, and check if the disc spins properly.
Do tracking offset adjustment.
Do tracking gain adjustment.
Are PLAY and SKIP operations working properly?
NO
Refer to the repair guide.
YES
Replacement is complete

9 Standard Schematic Diagram

■ Tuner Section B/E Version



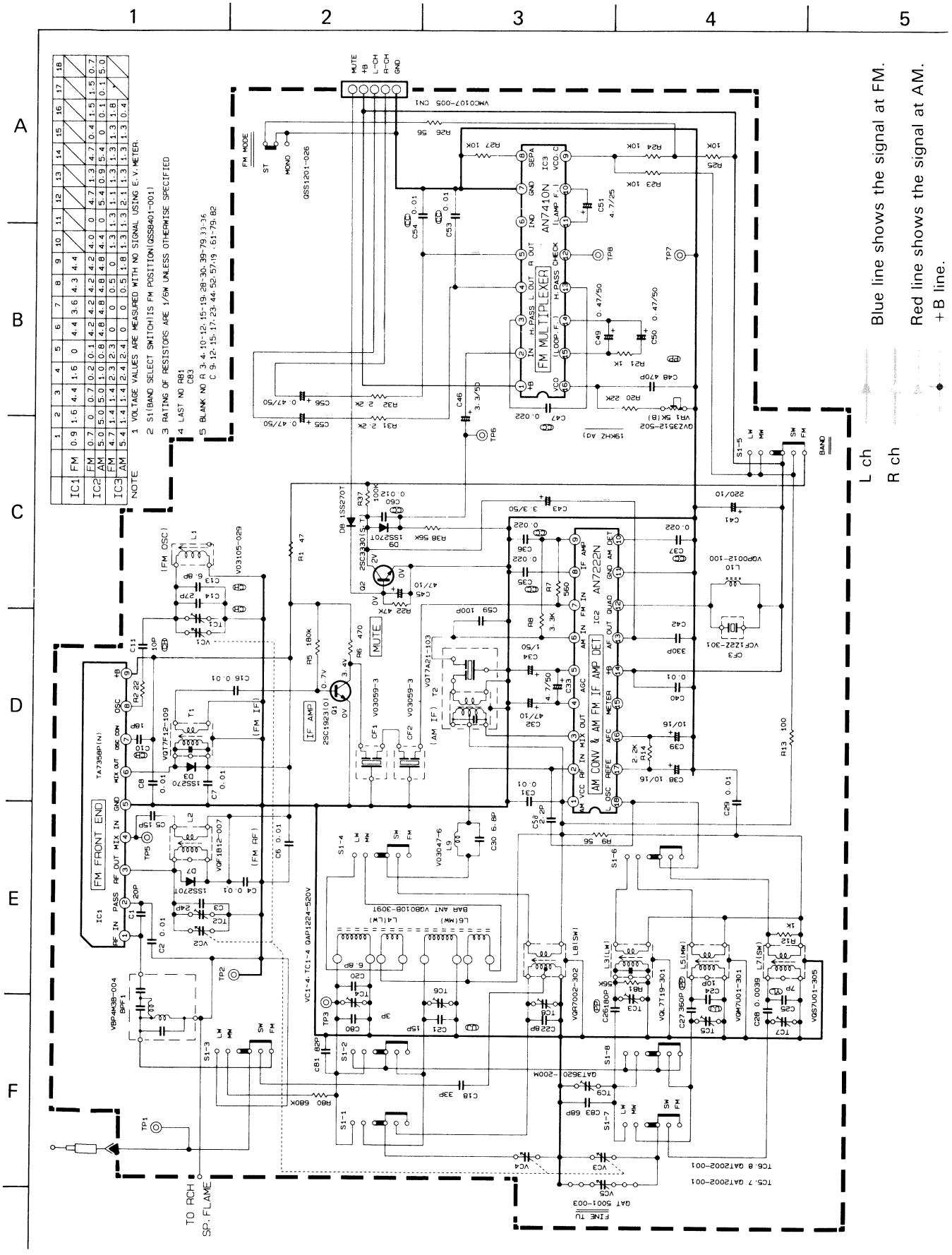
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
IC1	FM	0.9	1.6	4.4	1.6	0	4.4	3.6	4.3	4.4										
IC2	FM	0.7	0	0.7	0.2	0.1	4.2	4.2	4.2	4.2	4.0	0	4.7	1.3	4.7	0.4	1.5	1.5	0.7	
	AM	5.0	5.0	5.0	1.0	0.8	4.8	4.8	4.8	4.8	4.4	0	5.4	0.9	5.4	0	0.1	0.1	5.0	
IC3	FM	4.7	1.4	1.4	2.3	2.3	0	0	0.5	0	1.3	1.3	1.1	1.3	1.3	1.3	1.3	1.8		
	AM	5.4	1.4	1.4	2.4	2.4	0	0	0.5	1.8	1.3	1.3	2.1	1.3	1.3	1.3	1.3	0.4		

NOTE
1 VOLTAGE VALUES ARE MEASURED WITH NO SIGNAL USING E.V.METER.
2 S1(BAND SELECT SWITCH)IS FM POSITION(QSS8401-001)
3 RATING OF RESISTORS ARE 1/6W UNLESS OTHERWISE SPECIFIED
4 LAST NO RB1 CB3
5 BLANK NO R 10-12.15-19.28-30.39-79.33-36
C 9.17.20.44.52.57-19.61-79

Fig. 9-1

Standard Schematic Diagram

■ Tuner Section G Version



		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
IC1	FM	0.9	1.6	4.4	1.6	4.4	3.6	4.3	4.4											
IC2	FM	0.7	0	0.7	0.2	0.1	4.2	4.2	4.2	4.2	4.0	0	4.7	1.3	4.7	0.4	1.5	1.5	0.7	
	AM	5.0	5.0	5.0	1.0	0.8	4.8	4.8	4.8	4.8	4.4	0	5.4	0.9	5.4	0	0.1	0.1	5.0	
IC3	FM	4.7	1.4	1.4	2.3	2.3	0	0	0.5	0	1.3	1.3	1.1	1.3	1.3	1.3	1.8			
	AM	5.4	1.4	1.4	2.4	2.4	0	0	0.5	1.8	1.3	1.3	2.1	1.3	1.3	1.3	0.4			

NOTE
1 VOLTAGE VALUES ARE MEASURED WITH NO SIGNAL USING E.V.METER.
2 S1(BAND SELECT SWITCH)IS FM POSITION(QSS8401-001)
3 RATING OF RESISTORS ARE 1/6W UNLESS OTHERWISE SPECIFIED
4 LAST NO R81
CB3
5 BLANK NO R 3.4.10-12.15-19.28-30.39-79.33.36
C 9.12-15.17.23.44.52.57.19.61-79.82

Standard Schematic Diagram ■ Amplifier Section (B/E/G Version)

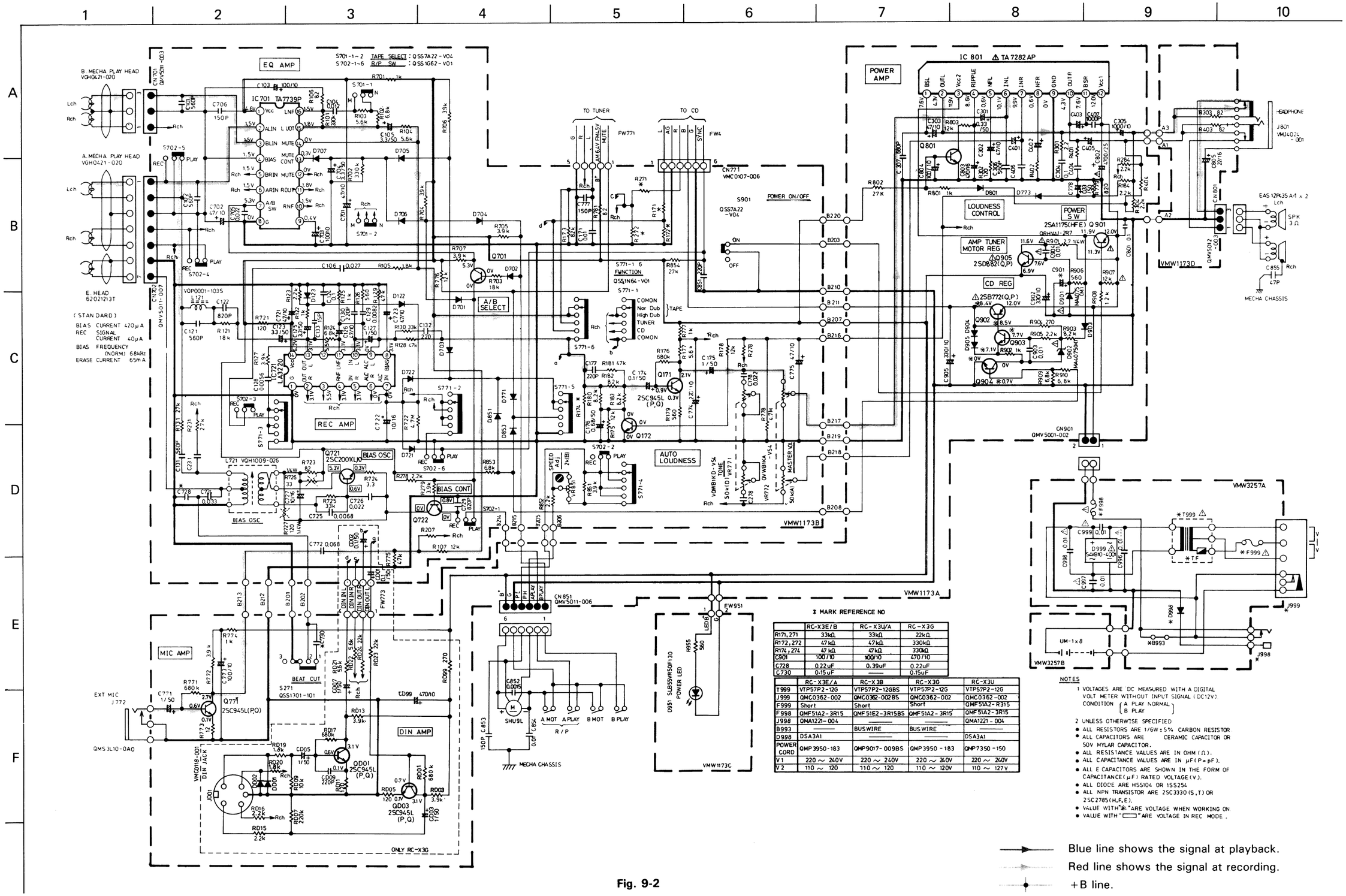


Fig. 9-2

⧗ MARK REFERENCE NO	RC-X3E/B	RC-X3U/A	RC-X3G
R171, 271	33kΩ	33kΩ	22kΩ
R172, 272	47kΩ	47kΩ	330kΩ
R174, 274	47kΩ	47kΩ	330kΩ
C901	100/10	100/10	470/10
C728	0.22uF	0.39uF	0.22uF
C730	0.15uF	——	0.15uF

	RC-X3E/A	RC-X3B	RC-X3G	RC-X3U
T999	VTP57P2-12G	VTP57P2-12GBS	VTP57P2-12G	VTP57P2-12G
J999	QMC0362-002	QMC0362-002BS	QMC0362-002	QMC0362-002
F999	Short	Short	Short	QMF51A2-R315
F998	QMF51A2-3R15	QMF51E2-3R15BS	QMF51A2-3R15	QMF51A2-3R15
J998	QMA1221-004	——	——	QMA1221-004
B993	——	BUS WIRE	BUS WIRE	——
D998	DSA3A1	——	——	DSA3A1
POWER CORD	QMP3950-183	QMP9017-009BS	QMP3950-183	QMP7350-150
V1	220 ~ 240V	220 ~ 240V	220 ~ 240V	220 ~ 240V
V2	110 ~ 120	110 ~ 120	110 ~ 120V	110 ~ 127V

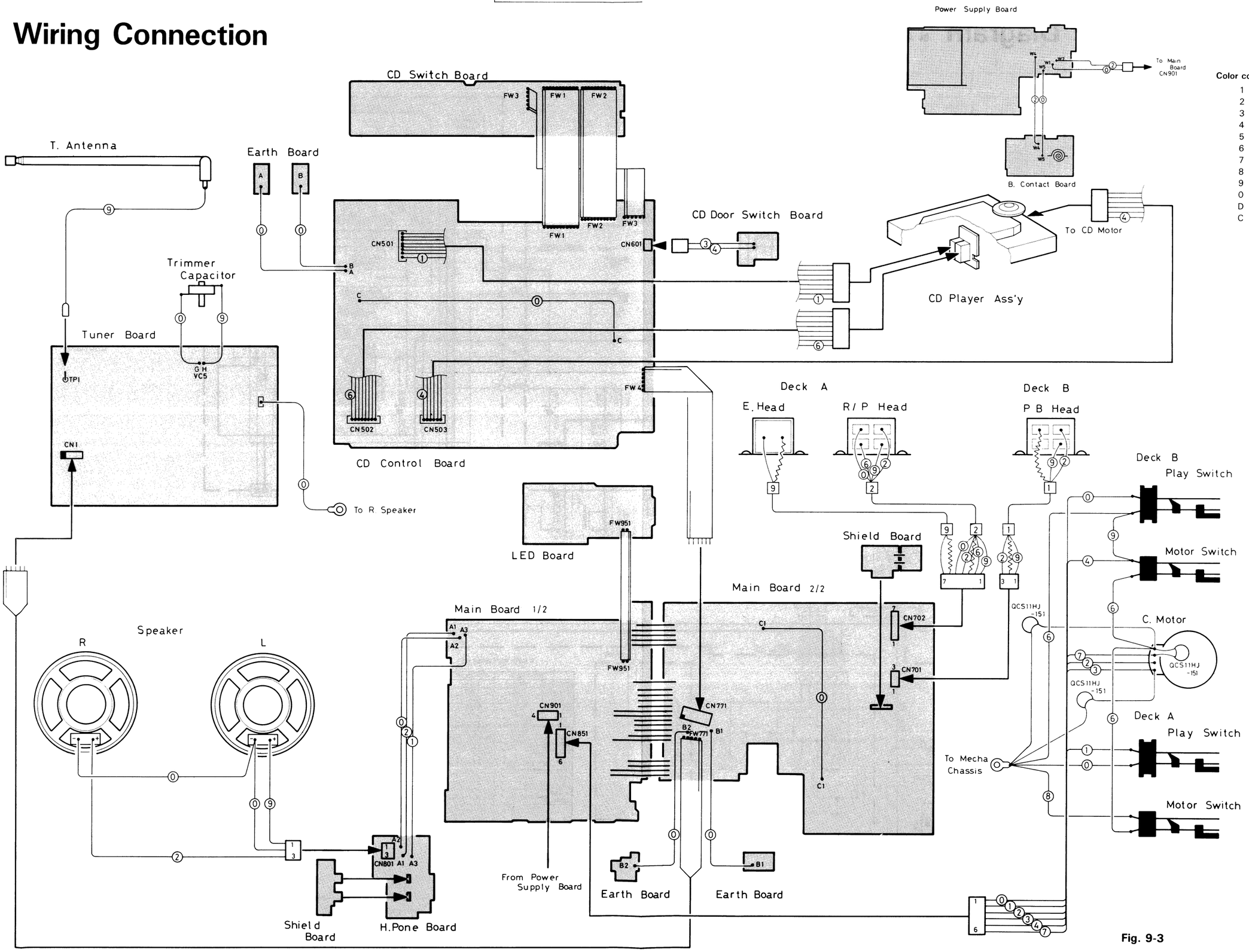
NOTES

1 VOLTAGES ARE DC MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL (DC12V)
CONDITION { A PLAY NORMAL / B PLAY }

2 UNLESS OTHERWISE SPECIFIED
- ALL RESISTORS ARE 1/6W ± 5% CARBON RESISTOR
- ALL CAPACITORS ARE CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
- ALL RESISTANCE VALUES ARE IN OHM (Ω).
- ALL CAPACITANCE VALUES ARE IN μF (P = pF).
- ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) RATED VOLTAGE (V).
- ALL DIODE ARE HSS104 OR 1SS254.
- ALL NPN TRANSISTOR ARE 2SC3330 (S,T) OR 2SC2785 (H,F,E).
- VALUE WITH "✱" ARE VOLTAGE WHEN WORKING ON
- VALUE WITH "▭" ARE VOLTAGE IN REC MODE.

Blue line shows the signal at playback.
Red line shows the signal at recording.
+B line.

Wiring Connection

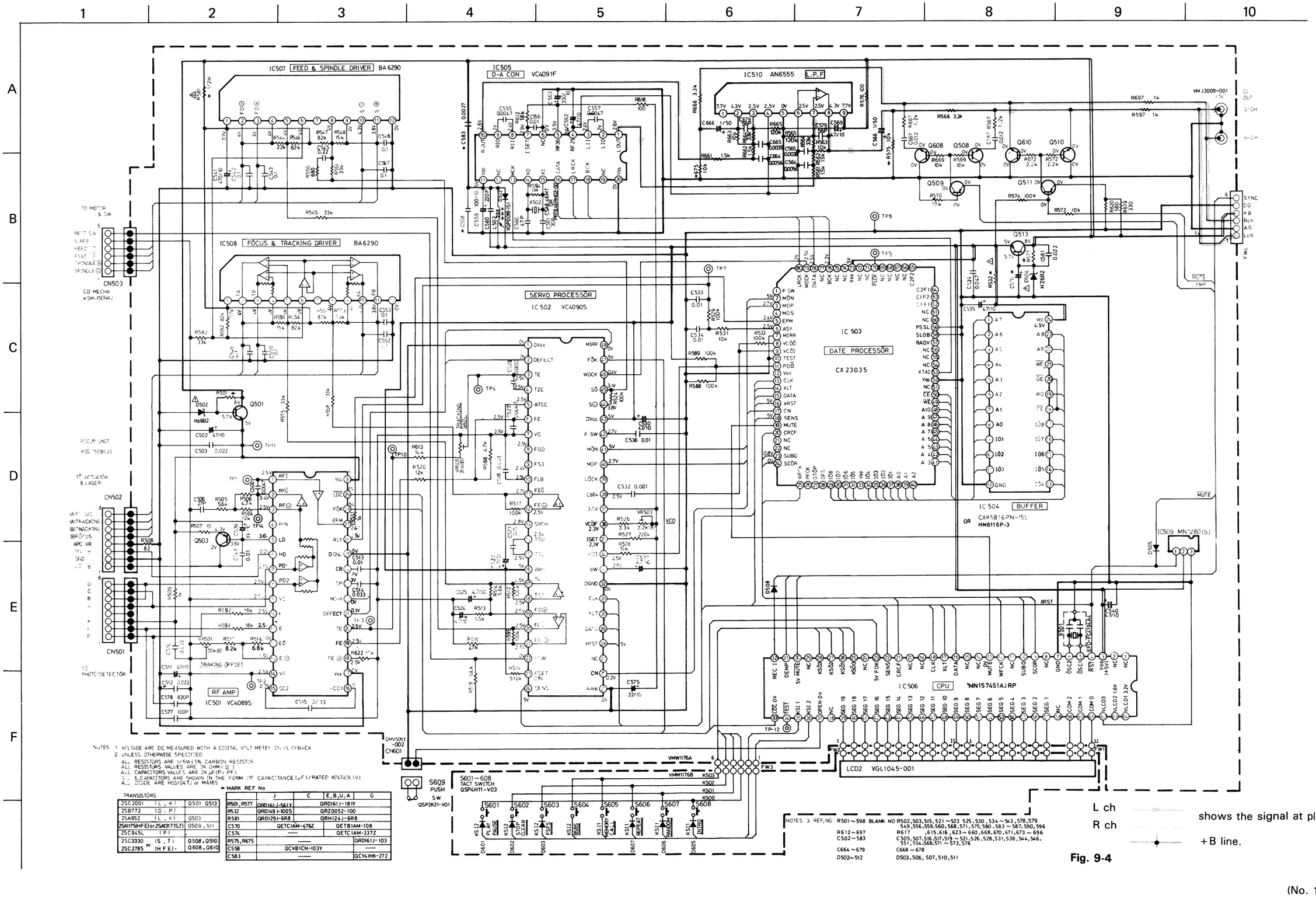


Color codes are shown below.

1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Gray
9	White
0	Black
D	Pink
C	Light Blue

Fig. 9-3

Standard Schematic Diagram ■ CD Control Section B/E/G Version



NOTES 1 VOLTAGE ARE DC MEASURED WITH A DIGITAL VOLT METER IN PLAYBACK
2 UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/6W±5% CARBON RESISTOR
ALL RESISTORS VALUES ARE IN OHM (Ω)
ALL CAPACITORS VALUES ARE IN μF(P: PF)
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)
ALL DIODE ARE HSS104TJ or MA165

TRANSISTORS

2SC2001	(L, K)	Q501	Q513
2SB772	(Q, P)		
2SA952	(L, K)	Q503	
2SA1175(HFE)or2SA1371(S,T)		Q509, Q511	
2SC945L	(P)		
2SC3330 or 2SC2785	(S, T) (H,F,E)	Q508, Q510 Q608, Q610	

★ MARK REF No

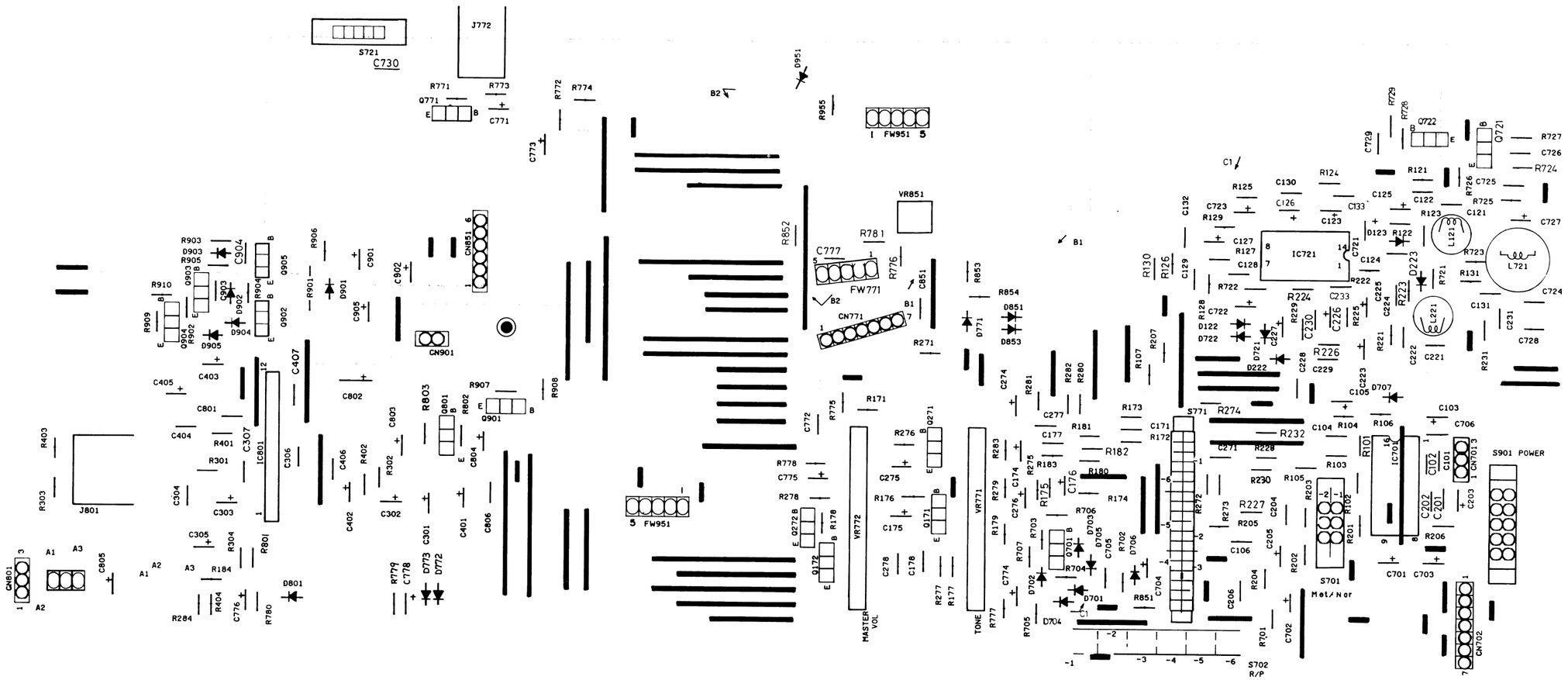
	J	C	E,B,U,A	G
R501, R577	QRD161J-561Y		QRD161J-181Y	
R532	QRD149J-100S		QRZ0052-100	
R581	QRD129J-6R8		QRH124J-6R8	
C570	QETC1AM-476Z		QETB1AM-108	
C574	—		QETC1AM-337Z	
R575, R675	—			QRD161J-103
C558	QCVB1CN-103Y		—	
C583	—			QCY41HK-272

NOTES 3. REF, NO R501~598 BLANK NO R502, 503, 515, 521~523, 525, 530, 534~543, 578, 579, 549, 556, 559, 560, 568, 571, 575, 580, 583~587, 590, 596
R612~697 R617, 615, 616, 623~660, 668, 670, 671, 673~696
C502~583 C505, 507, 516, 517, 519~521, 526, 528, 531, 538, 544, 546, 551, 554, 568, 571~573, 576
C664~679 C668~678
D502~512 D503, 506, 507, 510, 511

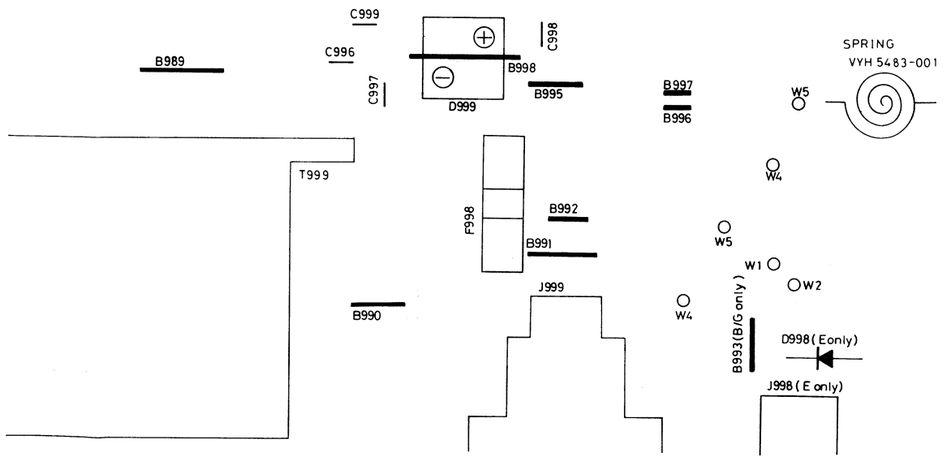
Fig. 9-4

10 Location of P.C. Board Parts and Parts List

■ Amplifier Board



■ Power Supply Board



Comparison Table of RC-X3 B and RC-X3 E and RC-X3 G

■ Power Supply Board Parts List

⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

⚠	REF. NO.	PARTS NO. RC-X3 B	PARTS NO. RC-X3 E	PARTS NO. RC-X3 G	PARTS NAME
	C996	QCF31HP-103Z	QCF31HP-103Z	QCF31HP-103Z	C. CAPACITOR
	C997	QCF31HP-103Z	QCF31HP-103Z	QCF31HP-103Z	C. CAPACITOR
	C998	QCF31HP-103Z	QCF31HP-103Z	QCF31HP-103Z	C. CAPACITOR
	C999	QCF31HP-103Z	QCF31HP-103Z	QCF31HP-103Z	C. CAPACITOR
	D999	S4VB10-4001	S4VB10-4001	S4VB10-4001	SI. DIODE
⚠	T999	VTP57P2-12GBS	VTP57P2-12G	VTP57P2-12G	POWER TRANS.
	F998	QMF51E2-3R15BS	QMF51A2-3R15	QMF51A2-3R15	FUSE
	J999	QMC0362-002BS	QMC0362-002	QMC0362-002	AC SOCKET

Fig. 10-1

Comparison Table of RC-X3 B/E and RC-X3 G

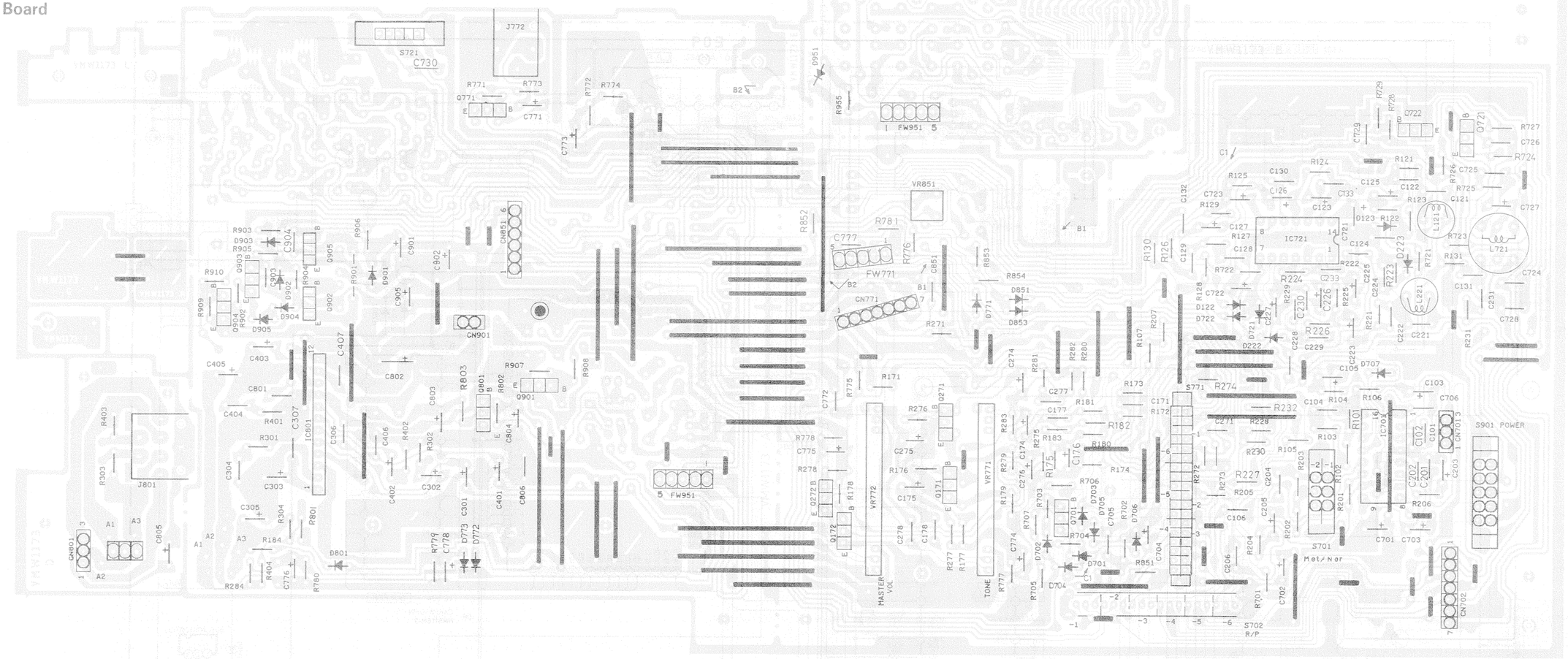
■ Amplifier Board Parts List

⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

⚠	REF. NO.	PARTS NO. RC-X3 B/E	PARTS NO. RC-X3 G	PARTS NAME
	R171,R271	QRD161J-333YT	QRD161J-223YT	C. RESISTOR
	R172,R272	QRD161J-473YT	QDD161J-334YT	C. RESISTOR
	R174,R274	QRD161J-473YT	QRD161J-334YT	C. RESISTOR
	C901	QETC1AM-477ZN	QETC1AM-477ZN	E. CAPACITOR
	JD01	–	VMC0118-001	DIN JACK
	QD01,QD02	–	2SC945L(P,Q)-T	TRANSISTOR
	QD03,QD04	–	2SC945L(P,Q)-T	TRANSISTOR
	DD01,DD02	–	1SS254T-77	SI DIODE
	RD01,RD02	–	QRD161J-684YT	C. RESISTOR
	RD03,RD04	–	QRD161J-392YT	C. RESISTOR
	RD05,RD06	–	QRD161J-121YT	C. RESISTOR
	RD07,RD08	–	QRD161J-224YT	C. RESISTOR
	RD09,RD10	–	QRD161J-103YT	C. RESISTOR
	RD11,RD12	–	QRD161J-121YT	C. RESISTOR
	RD13,RD14	–	QRD161J-392YT	C. RESISTOR
	RD15,RD16	–	QRD161J-222YT	C. RESISTOR
	RD17,RD18	–	QRD161J-684YT	C. RESISTOR
	RD19,RD20	–	QRD161J-182YT	C. RESISTOR
	RD21,RD22	–	QRD161J-562YT	C. RESISTOR
	RD23,RD24	–	QRD161J-223YT	C. RESISTOR
	RD99	–	QRD161J-271YT	C. RESISTOR
	CD01,CD02	–	QETC1HM-104ZN	E. CAPACITOR
	CD03,CD04	–	QETC1HM-105ZN	E. CAPACITOR
	CD05,CD06	–	QETC1HM-105ZN	E. CAPACITOR
	CD07,CD08	–	QETC1HM-105ZN	E. CAPACITOR
	CD09,CD10	–	QCBB1HK-221Y	C. CAPACITOR
	R955	QRD161J-561YT	QRD161J-561Y	C. RESISTOR

10 Location of P.C. Board Parts and Parts List

■ Amplifier Board


LED Board
S721
J772
C730
R771
R773
Q771
C771
R772
R774
C773
D951
R955
FW951
B2
B1
VR851
R781
C777
FW771
R776
C851
CN771
R852
R853
R854
D851
D853
D771
R271
R171
R775
R276
Q271
R778
C775
C275
R278
Q272
R178
Q172
VR772
MASTER VOL
VR771
TONE
R777
R283
R279
R275
R175
C174
C275
C176
R183
R182
R180
R174
R706
R703
R707
R704
D703
D705
D706
D702
D701
D704
Q701
C705
C706
C704
R851
C1
R705
R701
C702
S702
R/P
S771
R274
R232
R228
R230
R105
R103
R104
R106
R101
R102
R201
R203
R204
R205
R227
R273
R272
C271
C106
C205
C206
C204
C202
C201
C102
C101
C103
C706
IC701
C701
C703
R206
S701
Mat/Nor
S901 POWER
CN7013
CN702
C1
R729
R728
Q722
Q721
R727
C726
R724
C725
R726
R725
C729
C132
R125
C130
R124
R121
C126
C123
C133
C125
C122
R123
C121
L121
C727
C723
R129
C127
R127
C128
IC721
C124
C721
R722
R130
R126
C129
R224
C233
C225
C224
R223
D223
L721
R723
R131
C724
C131
C231
C728
R128
D122
D722
C722
R229
C230
C226
R225
C227
D222
C228
C229
R226
C223
D707
C105
R221
C222
C221
D721
R231
R107
R207
C274
R281
R282
R280
C277
R181
C177
C171
R172
C271
R228
R230
R105
R103
R104
R106
R101
R102
R201
R203
R204
R205
R227
R273
R272

■ Amplifier Board Parts List (B/G Version)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	CN701	QMV5011-003	CONNECTOR
	CN702	QMV5011-007	CONNECTOR
	CN771	VMC0107-006	SOCKET
	CN801	QMV5012-003	CONNECTOR
	CN851	QMV5011-006	CONNECTOR
	CN901	QMV5011-002	CONNECTOR
	C101	QCBB1HK-561Y	C.CAPACITOR
	C102	QCBB1HK-561Y	C.CAPACITOR
	C103	QETC1AM-107ZN	E.CAPACITOR
	C104	QCC31EM-123ZV	C.CAPACITOR
	C105	QETC1HM-335ZN	E.CAPACITOR
	C106	QCC31EM-273ZV	C.CAPACITOR
	C121	QCBB1HK-561Y	C.CAPACITOR
	C122	QCBB1HK-821Y	C.CAPACITOR
	C123	QETC1HM-335ZN	E.CAPACITOR
	C124	QCC31EM-104ZV	C.CAPACITOR
	C125	QETC1HM-335ZN	E.CAPACITOR
	C126	QETC1AM-476ZN	E.CAPACITOR
	C127	QETC1HM-105ZN	E.CAPACITOR
	C128	QCY31HK-562Z	C.CAPACITOR
	C129	QCY31HK-822Z	C.CAPACITOR
	C130	QCBB1HK-221Y	C.CAPACITOR
	C131	QCBB1HK-561Y	C.CAPACITOR
	C132	QCBB1HK-221Y	C.CAPACITOR
	C133	QCSB1HJ-150Y	C.CAPACITOR
	C171	QCVB1CM-103Y	C.CAPACITOR
	C174	QETC1HM-104ZN	E.CAPACITOR
	C175	QETC1HM-105ZN	E.CAPACITOR
	C176	QETC1HM-684ZN	E.CAPACITOR
	C177	QCBB1HK-221Y	C.CAPACITOR
	C178	QCC31EM-223ZV	C.CAPACITOR
	C201	QCBB1HK-561Y	C.CAPACITOR
	C202	QCBB1HK-561Y	C.CAPACITOR
	C203	QETC1AM-107ZN	E.CAPACITOR
	C204	QCC31EM-123ZV	C.CAPACITOR
	C205	QETC1HM-335ZN	E.CAPACITOR
	C206	QCC31EM-273ZV	C.CAPACITOR
	C221	QCBB1HK-561Y	C.CAPACITOR
	C222	QCBB1HK-821Y	C.CAPACITOR
	C223	QETC1HM-335ZN	E.CAPACITOR
	C224	QCC31EM-104ZV	C.CAPACITOR
	C225	QETC1HM-335ZN	E.CAPACITOR
	C226	QETC1AM-476ZN	E.CAPACITOR
	C227	QETC1HM-105ZN	E.CAPACITOR
	C228	QCY31HK-562Z	C.CAPACITOR
	C229	QCY31HK-822Z	C.CAPACITOR
	C230	QCBB1HK-221Y	C.CAPACITOR
	C231	QCBB1HK-561Y	C.CAPACITOR
	C232	QCBB1HK-221Y	C.CAPACITOR
	C233	QCSB1HJ-150Y	C.CAPACITOR
	C271	QCVB1CM-103Y	C.CAPACITOR
	C274	QETC1HM-104ZN	E.CAPACITOR
	C275	QETC1HM-105ZN	E.CAPACITOR
	C276	QETC1HM-684ZN	E.CAPACITOR
	C277	QCBB1HK-221Y	C.CAPACITOR
	C278	QCC31EM-223ZV	C.CAPACITOR
	C301	QER61HM-334ZM	E CAPACITOR
	C302	QETC1AM-476ZN	E.CAPACITOR
	C303	QETC1AM-476ZN	E.CAPACITOR
	C304	QCC31EM-104ZV	C.CAPACITOR
	C305	QETB1AM-108N	E.CAPACITOR
	C306	QCBB1HK-561Y	C.CAPACITOR
	C307	QCS31HJ-681Z	C CAPACITOR
	C401	QER61HM-334ZM	E CAPACITOR
	C402	QETC1AM-476ZN	E.CAPACITOR
	C403	QETC1AM-476ZN	E.CAPACITOR
	C404	QCC31EM-104ZV	C.CAPACITOR
	C405	QETB1AM-108N	E.CAPACITOR
	C406	QCBB1HK-561Y	C.CAPACITOR
	C407	QCBB1HK-102Y	C.CAPACITOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	C701	QETC1AM-476ZN	E.CAPACITOR
	C702	QETC1AM-476ZN	E.CAPACITOR
	C703	QETC1AM-107ZN	E.CAPACITOR
	C704	QETC1HM-335ZN	E.CAPACITOR
	C705	QCC31EM-223ZV	C.CAPACITOR
	C706	QCBB1HK-151Y	C.CAPACITOR
	C721	QETC1AM-476ZN	E.CAPACITOR
	C722	QETC1CM-106ZN	E.CAPACITOR
	C723	QETC1AM-476ZN	E.CAPACITOR
	C724	QFV71HJ-333ZM	TF.CAPACITOR
	C725	QCY31HK-682Z	C.CAPACITOR
	C726	QCC31EM-223ZV	C.CAPACITOR
	C727	QETC1CM-106ZN	E.CAPACITOR
	C728	QFV71HJ-224ZM	TF.CAPACITOR
	C729	QCBB1HK-821Y	C.CAPACITOR
	C730	QFV71HJ-154ZM	TF.CAPACITOR
	C771	QETC1HM-105ZN	E.CAPACITOR
	C772	QCC31EM-683ZV	C.CAPACITOR
	C773	QETC1AM-107ZN	E.CAPACITOR
	C774	QETC1AM-227ZN	E.CAPACITOR
	C775	QETC1AM-476ZN	E.CAPACITOR
	C776	QETC1HM-334ZN	E.CAPACITOR
	C777	QCBB1HK-151Y	C.CAPACITOR
	C778	QETC1HM-334ZN	E.CAPACITOR
⚠	C801	QCC31EM-104ZV	C.CAPACITOR
⚠	C802	QETB1EM-478N	E CAPACITOR
⚠	C803	QETB1CM-477N	E CAPACITOR
	C804	QETC1AM-107ZN	E.CAPACITOR
	C805	QETC1CM-226ZN	E.CAPACITOR
	C806	QCC31EM-104ZV	C.CAPACITOR
	C851	QCBB1HK-221Y	C.CAPACITOR
	C901	QETC1AM-107ZN	E.CAPACITOR
	C902	QETC1AM-337ZN	E.CAPACITOR
	C903	QCVB1CM-103Y	C.CAPACITOR
	C904	QCVB1CM-103Y	C.CAPACITOR
	C905	QETC1AM-337ZN	E.CAPACITOR
	D122	1SS254T-77	SI DIODE
	D123	1SS254T-77	SI DIODE
	D222	1SS254T-77	SI DIODE
	D223	1SS254T-77	SI DIODE
	D701	1SS254T-77	SI DIODE
	D702	1SS254T-77	SI DIODE
	D703	1SS254T-77	SI DIODE
	D704	1SS254T-77	SI DIODE
	D705	1SS254T-77	SI DIODE
	D706	1SS254T-77	SI DIODE
	D707	1SS254T-77	SI DIODE
	D721	1SS254T-77	SI DIODE
	D722	1SS254T-77	SI DIODE
	D771	1SS254T-77	SI DIODE
	D772	1SS254T-77	SI DIODE
	D773	1SS254T-77	SI DIODE
	D801	1SS254T-77	SI DIODE
	D851	1SS254T-77	SI DIODE
	D853	1SS254T-77	SI DIODE
	D901	MA4075(M)TA	DIODE
	D902	MA4075(M)TA	DIODE
	D903	1SS254T-77	SI DIODE
	D904	2SC2785(HFE)-T	TRANSISTOR
	D905	1SS254T-77	SI DIODE
	D951	SLB55VR50F130	LED(F.G.H)
	IC701	TA7739P	IC
	IC721	LA3220	IC
⚠	IC801	TA7282AP	IC
	J772	QMS3L10-0A0	3.5 JACK(JES)
	J801	VMJ4024-001	JACK
	L121	VQP0001-103S	INDUCTOR
	L221	VQP0001-103S	INDUCTOR
	Q171	2SC945L(P,Q)-T	TRANSISTOR
	Q172	2SC2785(HFE)-T	TRANSISTOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	Q271	2SC945L(P,Q)-T	TRANSISTOR
	Q272	2SC2785(HFE)-T	TRANSISTOR
	Q701	2SC2785(HFE)-T	TRANSISTOR
	Q721	2SC2001(L,K)-T	TRANSISTOR
	Q722	2SC2785(HFE)-T	TRANSISTOR
	Q771	2SC945L(P,Q)-T	TRANSISTOR
	Q801	2SC2785(HFE)-T	TRANSISTOR
	Q901	2SA1175(HFE)-T	TRANSISTOR
⚠	Q902	2SB772(Q,P)	T.R
	Q903	2SC2785(HFE)-T	TRANSISTOR
	Q905	2SD882(Q,P)	T.R
	R101	QRD161J-334YT	C RESISTOR
	R102	QRD161J-682YT	C RESISTOR
	R103	QRD161J-562YT	C RESISTOR
	R104	QRD161J-562YT	C RESISTOR
	R105	QRD161J-182YT	C RESISTOR
	R106	QRD161J-820YT	C RESISTOR
	R107	QRD161J-123YT	C RESISTOR
	R121	QRD161J-183YT	C RESISTOR
	R122	QRD161J-102YT	C RESISTOR
	R123	QRD161J-222YT	C RESISTOR
	R124	QRD161J-683YT	C RESISTOR
	R125	QRD161J-102YT	C RESISTOR
	R126	QRD161J-561YT	C RESISTOR
	R127	QRD161J-392YT	C RESISTOR
	R128	QRD161J-473YT	C RESISTOR
	R129	QRD161J-473YT	C RESISTOR
	R130	QRD161J-333YT	C RESISTOR
	R131	QRD161J-273YT	C RESISTOR
	R171	QRD161J-333YT	C RESISTOR
	R172	QRD161J-473YT	C RESISTOR
	R173	QRD161J-823YT	C RESISTOR
	R174	QRD161J-473YT	C RESISTOR
	R175	QRD161J-123YT	C RESISTOR
	R176	QRD161J-684YT	C RESISTOR
	R177	QRD161J-562YT	C RESISTOR
	R178	QRD161J-123YT	C RESISTOR
	R179	QRD161J-561YT	C RESISTOR
	R180	QRD161J-822YT	C RESISTOR
	R181	QRD161J-473YT	C RESISTOR
	R182	QRD161J-823YT	C RESISTOR
	R183	QRD161J-822YT	C RESISTOR
	R184	QRD161J-222YT	C RESISTOR
	R201	QRD161J-334YT	C RESISTOR
	R202	QRD161J-682YT	C RESISTOR
	R203	QRD161J-562YT	C RESISTOR
	R204	QRD161J-562YT	C RESISTOR
	R205	QRD161J-182YT	C RESISTOR
	R206	QRD161J-820YT	C RESISTOR
	R207	QRD161J-123YT	C RESISTOR
	R221	QRD161J-183YT	C RESISTOR
	R222	QRD161J-102YT	C RESISTOR
	R223	QRD161J-222YT	C RESISTOR
	R224	QRD161J-683YT	C RESISTOR
	R225	QRD161J-102YT	C RESISTOR
	R226	QRD161J-561YT	C RESISTOR
	R227	QRD161J-392YT	C RESISTOR
	R228	QRD161J-473YT	C RESISTOR
	R229	QRD161J-473YT	C RESISTOR
	R230	QRD161J-333YT	C RESISTOR
	R231	QRD161J-273YT	C RESISTOR
	R271	QRD161J-333YT	C RESISTOR
	R272	QRD161J-473YT	C RESISTOR
	R273	QRD161J-823YT	C RESISTOR
	R274	QRD161J-473YT	C RESISTOR
	R275	QRD161J-123YT	C RESISTOR
	R276	QRD161J-684YT	C RESISTOR
	R277	QRD161J-562YT	C RESISTOR
	R278	QRD161J-123YT	C RESISTOR
	R279	QRD161J-561YT	C RESISTOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	R280	QRD161J-822YT	C RESISTOR
	R281	QRD161J-473YT	C RESISTOR
	R282	QRD161J-823YT	C RESISTOR
	R283	QRD161J-822YT	C RESISTOR
	R284	QRD161J-222YT	C RESISTOR
⚠	R301	QRD161J-2R2YT	C RESISTOR
	R302	QRD161J-121YT	C RESISTOR
	R303	QRD161J-820YT	C RESISTOR
	R304	QRD161J-222YT	C RESISTOR
⚠	R401	QRD161J-2R2YT	C RESISTOR
	R402	QRD161J-121YT	C RESISTOR
	R403	QRD161J-820YT	C RESISTOR
	R404	QRD161J-222YT	C RESISTOR
	R701	QRD161J-102YT	C RESISTOR
	R702	QRD161J-334YT	C RESISTOR
	R703	QRD161J-183YT	C RESISTOR
	R704	QRD161J-392YT	C RESISTOR
	R705	QRD161J-392YT	C RESISTOR
	R706	QRD161J-392YT	C RESISTOR
	R707	QRD161J-392YT	C RESISTOR
	R721	QRD161J-121YT	C RESISTOR
	R722	QRD161J-475YT	C RESISTOR
	R723	QRD161J-820YT	C RESISTOR
	R724	QRD144J-3R3S	CARBON RESISTOR
	R725	QRD161J-333YT	C RESISTOR
	R726	QRD144J-330S	CARBON RESISTOR
	R727	QRD144J-121S	CARBON RESISTOR
	R728	QRD161J-222YT	C RESISTOR
	R729	QRD161J-392YT	C RESISTOR
	R771	QRD161J-684YT	C RESISTOR
	R772	QRD161J-392YT	C RESISTOR
	R773	QRD161J-120YT	C RESISTOR
	R774	QRD161J-102YT	C RESISTOR
	R775	QRD161J-473YT	C RESISTOR
	R776	QRD161J-123YT	C RESISTOR
	R777	QRD161J-102YT	C RESISTOR
	R778	QRD161J-475YT	C RESISTOR
	R779	QRD161J-821YT	C RESISTOR
	R780	QRD161J-821YT	C RESISTOR
	R781	QRD144J-680S	CARBON RESISTOR
	R801	QRD161J-102YT	C RESISTOR
	R802	QRD161J-273YT	C RESISTOR
	R803	QRD161J-123YT	C RESISTOR
	R851	QRD161J-392YT	C RESISTOR
	R852	QRD161J-222YT	C RESISTOR
	R853	QRD161J-682YT	C RESISTOR
	R854	QRD161J-273YT	C RESISTOR
⚠	R901	QRH141J-2R7	FUSI RESISTOR
	R902	QRD161J-102YT	C RESISTOR
	R903	QRD161J-822YT	C RESISTOR
	R904	QRD161J-271YT	C RESISTOR
	R905	QRD161J-222YT	C RESISTOR
⚠	R906	QRD161J-561YT	C RESISTOR
	R907	QRD161J-123YT	C RESISTOR
	R908	QRD161J-123YT	C RESISTOR
	R909	QRD161J-682YT	C RESISTOR
	R910	QRD161J-682YT	C RESISTOR
	R955	QRD161J-561YT	C RESISTOR
	S701	QSS7A22-V04	SLIDE SW
	S702	QSS1G62-V01	SLIDE SWITCH
	S721	QSS1301-101	SLIDE SWITCH
	S771	QSS1N64-V01	SLIDE SW
⚠	S901	QSS7A22-V04	SLIDE SW
	VR771	QVWB1KD-V54	V.RESISTOR
	VR772	QVWB1KA-V54	V RESISTOR
	VR851	QVPA601-202	V.RESISTOR

■ CD Control Board

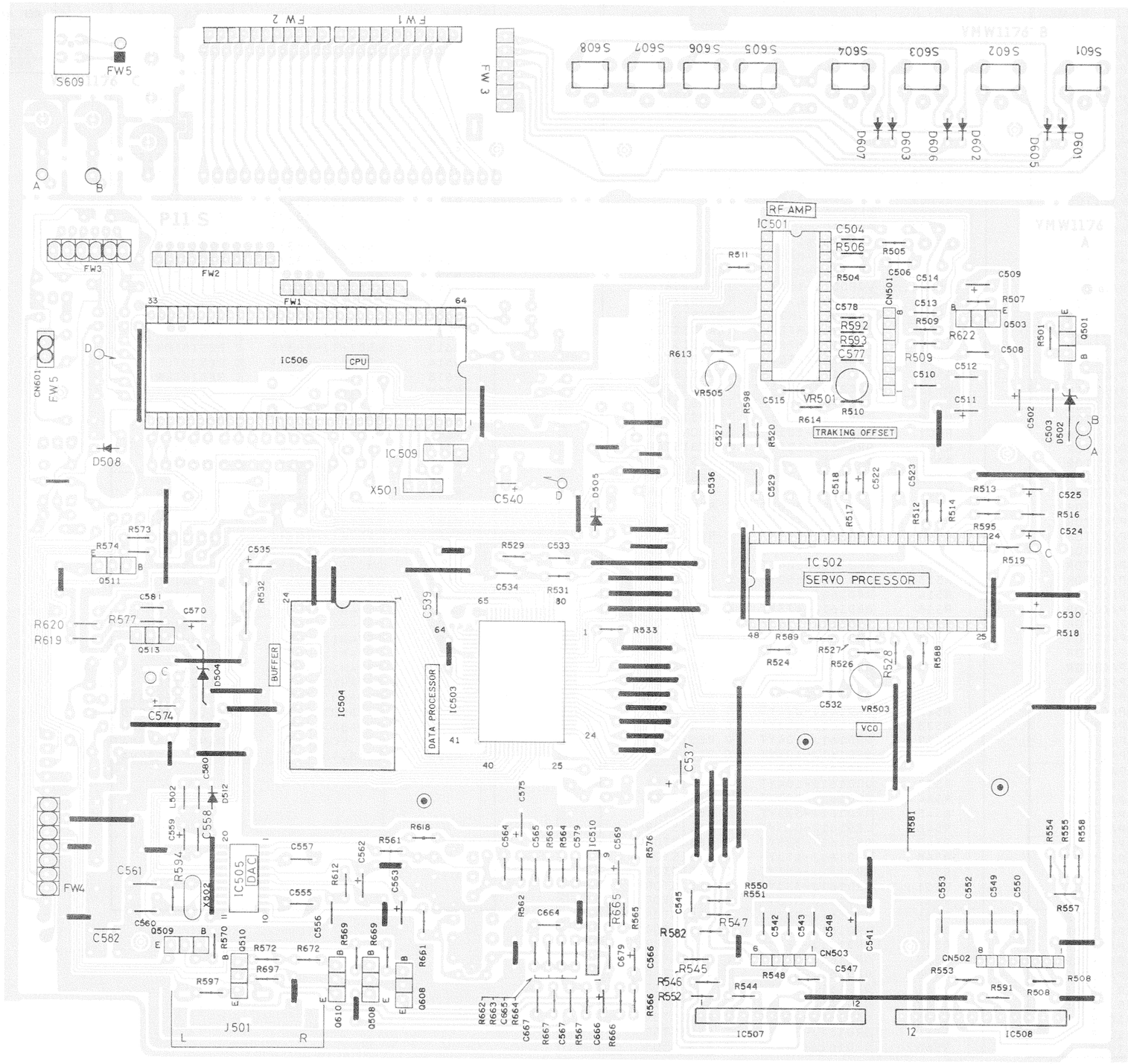


Fig. 10-2

■ CD Control Board

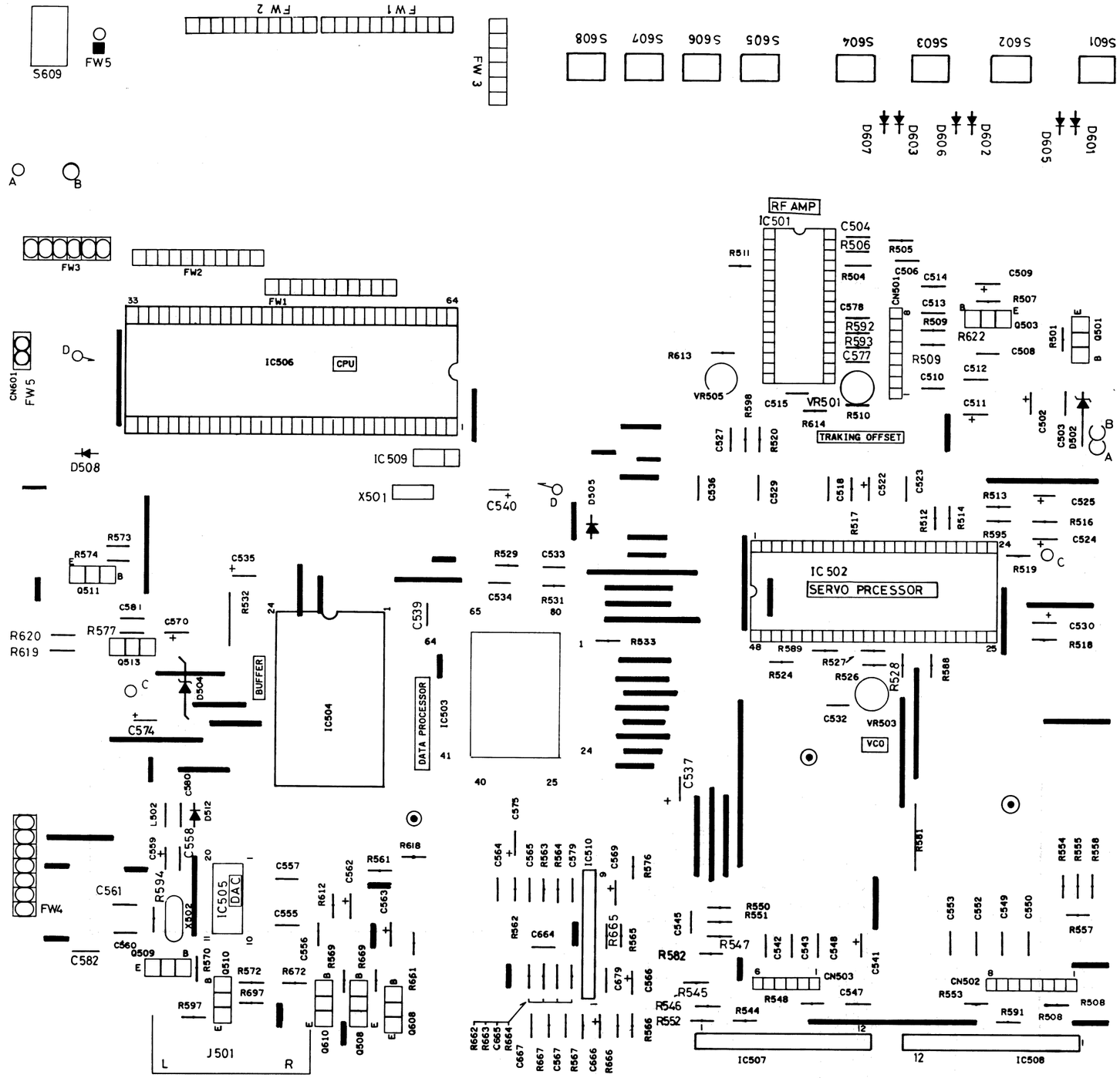


Fig. 10-2

■ CD Control Board Parts List (B/E Version)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	CN601	QMV5011-002	CONNECTOR
	C502	QETC1AM-476ZN	E.CAPACITOR
	C503	QCC31EM-223ZV	C.CAPACITOR
	C504	QCXB1CM-472Y	C.CAPACITOR
	C506	QCS31HJ-270Z	C.CAPACITOR
	C508	QCC31EM-103ZV	C.CAPACITOR
	C509	QETC1AM-107ZN	E.CAPACITOR
	C510	QCC31EM-223ZV	C.CAPACITOR
	C511	QETC1AM-476ZN	E.CAPACITOR
	C512	QCC31EM-223ZV	C.CAPACITOR
	C513	QCC31EM-103ZV	C.CAPACITOR
	C514	QCC31EM-333ZV	C.CAPACITOR
	C515	QCC31EM-333ZV	C.CAPACITOR
	C518	QFV71HJ-333ZM	TF.CAPACITOR
	C522	QETC1HM-475ZN	E.CAPACITOR
	C523	QFV71HJ-154ZM	TF.CAPACITOR
	C524	QETC1AM-476ZN	E.CAPACITOR
	C525	QETC1HM-475ZN	E.CAPACITOR
	C527	QCY31HK-472Z	C.CAPACITOR
	C529	QCY31HK-222Z	C.CAPACITOR
	C530	QETC1AM-476ZN	E.CAPACITOR
	C532	QCY31HK-102Z	C.CAPACITOR
	C533	QCVB1CN-103Y	C.CAPACITOR
	C534	QCVB1CN-103Y	C.CAPACITOR
	C536	QFV71HJ-103ZM	TF.CAPACITOR
	C537	QETC1HM-475ZN	E.CAPACITOR
	C539	QCC31EM-473ZV	C.CAPACITOR
	C540	QER61CM-476Z	E.CAPACITOR
	C542	QCC31EM-104ZV	C.CAPACITOR
	C543	QCC31EM-104ZV	C.CAPACITOR
	C545	QFV71HJ-224ZM	TF.CAPACITOR
	C547	QCC31EM-104ZV	C.CAPACITOR
	C548	QCC31EM-104ZV	C.CAPACITOR
	C549	QCC31EM-104ZV	C.CAPACITOR
	C550	QCC31EM-104ZV	C.CAPACITOR
	C552	QCC31EM-104ZV	C.CAPACITOR
	C553	QCC31EM-104ZV	C.CAPACITOR
	C555	QFN31HJ-472Z	M.CAPACITOR
	C556	QCVB1CN-103Y	C.CAPACITOR
	C557	QFN31HJ-472Z	M.CAPACITOR
	C558	QCVB1CN-103Y	C.CAPACITOR
	C559	QETC1AM-107ZN	E.CAPACITOR
	C560	QCSB1HJ-470Y	C.CAPACITOR
	C561	QCSB1HJ-300Y	C CAPACITOR
	C562	QETC1AM-476ZN	E.CAPACITOR
	C563	QETC1AM-337ZN	E.CAPACITOR
	C564	QCY31HK-562Z	C.CAPACITOR
	C565	QCXB1CM-392Y	C.CAPACITOR
	C566	QETC1HM-105ZN	E.CAPACITOR
	C567	QCC31EM-123ZV	C.CAPACITOR
	C569	QETC1AM-476ZN	E.CAPACITOR
	C570	QETB1AM-108	E CAPACITOR
	C574	QETC1AM-337ZN	E.CAPACITOR
	C575	QETC1AM-226ZN	E.CAPACITOR
	C577	QCBB1HK-101Y	C.CAPACITOR
	C578	QCBB1HK-821Y	C.CAPACITOR
	C579	QCSB1HJ-560Y	C.CAPACITOR
	C580	QCBB1HK-221Y	C.CAPACITOR
	C581	QCC31EM-223ZV	C.CAPACITOR
	C582	QCY41HK-272	C.CAPACITOR
	C664	QCY31HK-562Z	C.CAPACITOR
	C665	QCXB1CM-392Y	C.CAPACITOR
	C666	QETC1HM-105ZN	E.CAPACITOR
	C667	QCC31EM-123ZV	C.CAPACITOR
	C679	QCSB1HJ-560Y	C.CAPACITOR
	D502	HZ6B2	ZENER DIODE
	D504	HZ6B2	ZENER DIODE
	D505	1SS254T-77	SI DIODE
	D508	1SS254T-77	SI DIODE
	D512	HSS104TJ	SI DIODE

⚠	REF. NO	PARTS NO.	PARTS NAME
	D601	HSS104TJ	SI DIODE
	D602	HSS104TJ	SI DIODE
	D603	HSS104TJ	SI DIODE
	D605	HSS104TJ	SI DIODE
	D606	HSS104TJ	SI DIODE
	D607	HSS104TJ	SI DIODE
	IC501	VC4089(S)	IC
	IC502	VC4090(S)	IC
	IC503	CX23035	IC
	IC504	HM6116P-4	I C
	IC505	VC4091F	IC
	IC506	MN157451AJRP	IC
	IC507	BA6290	IC
	IC508	BA6290	IC
	IC509	MN1280(S)	IC
	J501	VMJ3009-001	JACK ASSY
	LCD2	VGL1045-001	LCD
	L502	VQP0018-151	INDUCTOR
	Q501	2SC2001(L,K)-T	TRANSISTOR
	Q503	2SA952(L,K)-T	TRANSISTOR
	Q508	2SC2785(HFE)-T	TRANSISTOR
	Q509	2SA1175(HFE)-T	TRANSISTOR
	Q510	2SC2785(HFE)-T	TRANSISTOR
	Q511	2SA1175(HFE)-T	TRANSISTOR
	Q513	2SC2001(L,K)-T	TRANSISTOR
	Q608	2SC2785(HFE)-T	TRANSISTOR
	Q610	2SC2785(HFE)-T	TRANSISTOR
	R501	QRD144J-181S	CARBON RESISTOR
	R504	QRD161J-123YT	C RESISTOR
	R505	QRD161J-562YT	C RESISTOR
	R506	QRD161J-472YT	C RESISTOR
	R507	QRD161J-100YT	C RESISTOR
	R508	QRD161J-820YT	C RESISTOR
	R509	QRD161J-102YT	C RESISTOR
	R510	QRD161J-822YT	C RESISTOR
	R511	QRD161J-102YT	C RESISTOR
	R512	QRD161J-104YT	C RESISTOR
	R513	QRD161J-152YT	C RESISTOR
	R514	QRD161J-562YT	C RESISTOR
	R516	QRD161J-473YT	C RESISTOR
	R517	QRD161J-104YT	C RESISTOR
	R518	QRD161J-104YT	C RESISTOR
	R519	QRD161J-514YT	C RESISTOR
	R520	QRD161J-123YT	C RESISTOR
	R524	QRD161J-104YT	C RESISTOR
	R526	QRD161J-332YT	C RESISTOR
	R527	QRD161J-224YT	C RESISTOR
	R528	QRD161J-103YT	C RESISTOR
	R529	QRD161J-104YT	C RESISTOR
	R531	QRD161J-103YT	C RESISTOR
	R532	QRZ0052-100	C RESISTOR
	R533	QRD161J-104YT	C RESISTOR
	R544	QRD161J-223YT	C RESISTOR
	R545	QRD161J-333YT	C RESISTOR
	R546	QRD161J-823YT	C RESISTOR
	R547	QRD161J-823YT	C RESISTOR
	R548	QRD161J-153YT	C RESISTOR
	R550	QRD161J-681YT	C RESISTOR
	R551	QRD161J-333YT	C RESISTOR
	R552	QRD161J-823YT	C RESISTOR
	R553	QRD161J-333YT	C RESISTOR
	R554	QRD161J-823YT	C RESISTOR
	R555	QRD161J-333YT	C RESISTOR
	R557	QRD161J-823YT	C RESISTOR
	R558	QRD161J-333YT	C RESISTOR
	R561	QRD161J-152YT	C RESISTOR
	R562	QRD161J-152YT	C RESISTOR
	R563	QRD161J-103YT	C RESISTOR
	R564	QRD161J-333YT	C RESISTOR
	R565	QRD161J-124YT	C RESISTOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	R566	QRD161J-332YT	C RESISTOR
	R567	QRD161J-122YT	C RESISTOR
	R569	QRD161J-103YT	C RESISTOR
	R570	QRD161J-103YT	C RESISTOR
	R572	QRD161J-222YT	C RESISTOR
	R573	QRD161J-103YT	C RESISTOR
	R574	QRD161J-104YT	C RESISTOR
	R576	QRD161J-101YT	C RESISTOR
	R577	QRD144J-181S	CARBON RESISTOR
	R581	QRH124J-6R8	FUSI RESISTOR
	R582	QRD161J-333YT	C RESISTOR
	R588	QRD161J-104YT	C RESISTOR
	R589	QRD161J-104YT	C RESISTOR
	R591	QRD161J-153YT	C RESISTOR
	R592	QRD161J-183YT	C RESISTOR
	R593	QRD161J-183YT	C RESISTOR
	R594	QRD161J-105YT	C RESISTOR
	R595	QRD161J-104YT	C RESISTOR
	R597	QRD161J-102YT	C RESISTOR
	R598	QRD161J-472YT	C RESISTOR
	R612	QRD161J-183YT	C RESISTOR
	R613	QRD161J-103YT	C RESISTOR
	R614	QRD161J-682YT	C RESISTOR
	R618	QRD161J-101YT	C RESISTOR
	R619	QRD161J-331YT	C RESISTOR
	R620	QRD161J-561YT	C RESISTOR
	R622	QRD161J-103YT	C RESISTOR
	R661	QRD161J-152YT	C RESISTOR
	R662	QRD161J-152YT	C RESISTOR
	R663	QRD161J-103YT	C RESISTOR
	R664	QRD161J-333YT	C RESISTOR
	R665	QRD161J-124YT	C RESISTOR
	R666	QRD161J-332YT	C RESISTOR
	R667	QRD161J-122YT	C RESISTOR
	R669	QRD161J-103YT	C RESISTOR
	R672	QRD161J-222YT	C RESISTOR
	R697	QRD161J-102YT	C RESISTOR
	S601	QSP4H11-V03	TACT SWITCH
	S602	QSP4H11-V03	TACT SWITCH
	S603	QSP4H11-V03	TACT SWITCH
	S604	QSP4H11-V03	TACT SWITCH
	S605	QSP4H11-V03	TACT SWITCH
	S606	QSP4H11-V03	TACT SWITCH
	S607	QSP4H11-V03	TACT SWITCH
	S608	QSP4H11-V03	TACT SWITCH
	VR501	QVPA603-203A	SEMI.V.RESISTOR
	VR503	QVPA603-222A	SEMI.V.RESISTOR
	VR505	QVPA603-203A	SEMI.V.RESISTOR
	X501	EFO-FC4194A4	CERAMIC RESONAT
	X502	CSA8.46MT	CERAMIC RESONAT

• Comparison Table of RC-X3 G and RC-X3 B/E

⚠	REF. NO.	PARTS NO.		PARTS NAME
		RC-X3 G	RC-X3 B/E	
	C558	QCVB1CN-103Y	—	C. CAPACITOR
	R575	QRD161J-103	—	C. RESISTOR
	R675	QRD161J-103	—	C. RESISTOR

11 Block Diagram

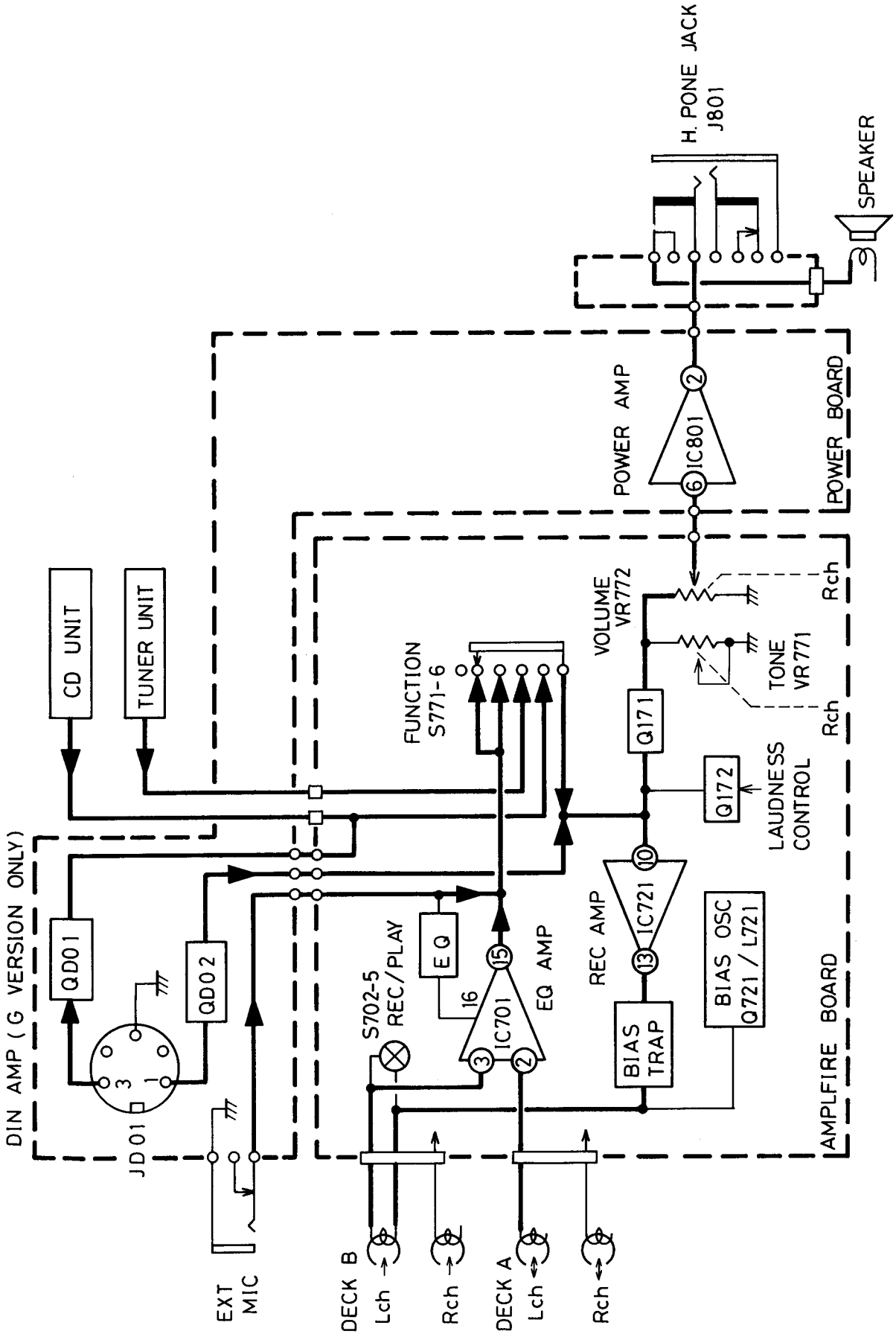


Fig. 11-1

■ Tuner Board Ass'y

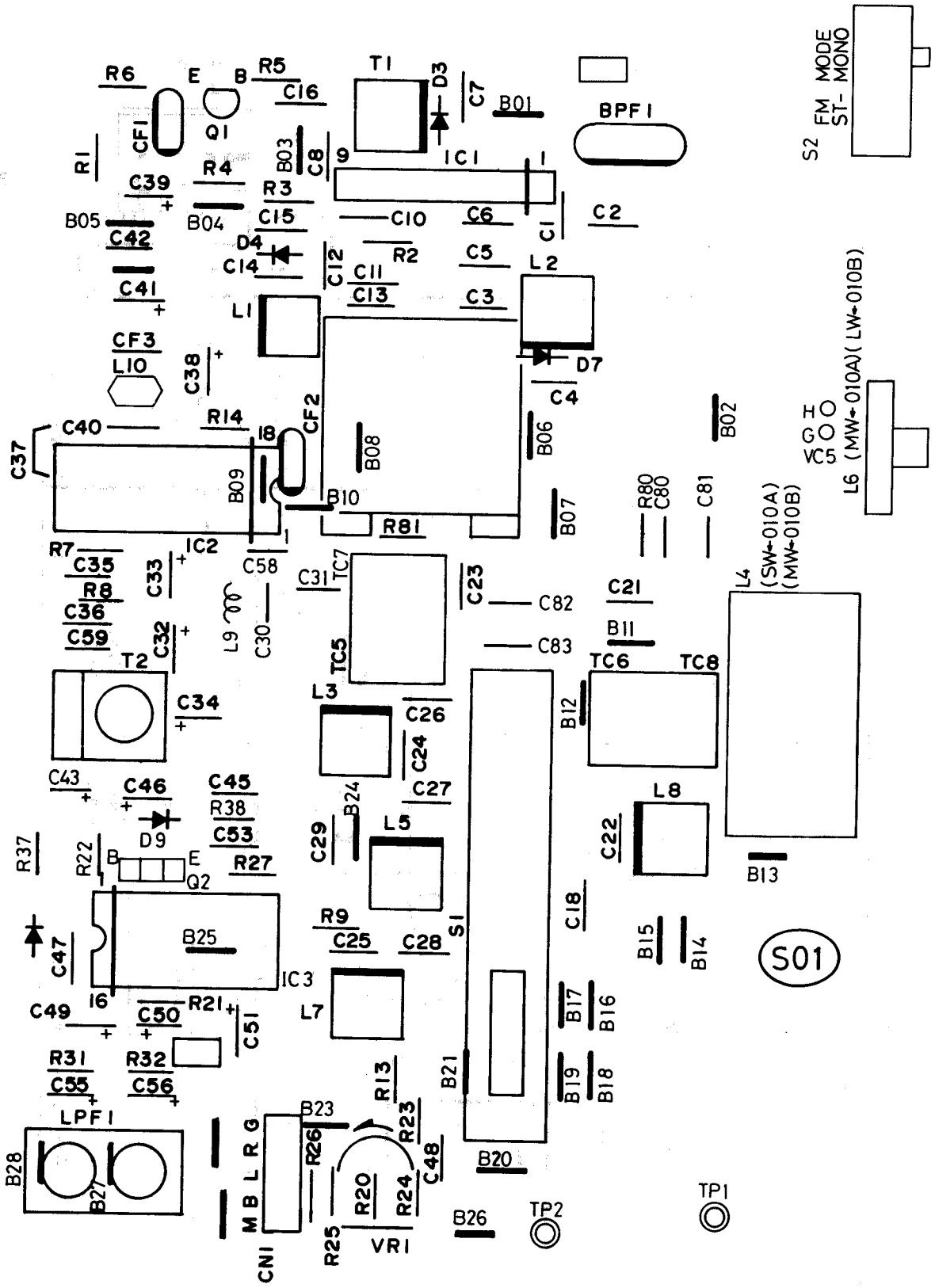


Fig. 11-2

■ Tuner Board Parts List (B Version)

⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	BP01	VBP4M3B-004	BP FILTER
	CN01	VMC0107-005	CONNECTOR
	C001	QCS31HJ-200Z	C.CAPACITOR
	C002	QCF31HP-103Z	C.CAPACITOR
	C003	QCS31HJ-220Z	C.CAPACITOR
	C004	QCF31HP-103Z	C.CAPACITOR
	C005	QCS31HJ-150Z	C.CAPACITOR
	C006	QCF31HP-103Z	C.CAPACITOR
	C007	QCF31HP-103Z	C.CAPACITOR
	C008	QCF31HP-103Z	C.CAPACITOR
	C010	QCT30CH-180Y	C.CAPACITOR
	C011	QCT30CH-100Y	C.CAPACITOR
	C012	QCT30CH-5R6Y	C.CAPACITOR
	C013	QCT30CH-200Y	C.CAPACITOR
	C014	QCT30UJ-6R8Y	C.CAPACITOR
	C015	QCC31EM-103ZV	C.CAPACITOR
	C016	QCF31HP-103Z	C.CAPACITOR
	C018	QCBB1HK-101Y	C.CAPACITOR
	C021	QCT30UJ-150Y	C.CAPACITOR
	C022	QCS31HJ-8R0Z	C.CAPACITOR
	C023	QCSB1HJ-300Y	C CAPACITOR
	C024	QCT30UJ-100Y	C CAPACITOR
	C025	QCT05YL-7R0V	C CAPACITOR
	C026	QFP31HJ-181ZM	PP CAPACITOR
	C027	QFP31HJ-361ZM	PP.CAPACITOR
	C028	QCY31HK-392Z	C.CAPACITOR
	C029	QCVB1CN-103Y	C.CAPACITOR
	C030	QCSB1HK-6R8Y	C CAPACITOR
	C031	QCF31HP-103Z	C.CAPACITOR
	C032	QETC1AM-476ZN	E.CAPACITOR
	C033	QETC1HM-475ZN	E.CAPACITOR
	C034	QETC1HM-105ZN	E.CAPACITOR
	C035	QCC31EM-223ZV	C.CAPACITOR
	C036	QCC31EM-223ZV	C.CAPACITOR
	C037	QCC31EM-223ZV	C.CAPACITOR
	C038	QETC1CM-106ZN	E.CAPACITOR
	C039	QETC1CM-106ZN	E.CAPACITOR
	C040	QCF31HP-103Z	C.CAPACITOR
	C041	QETC1AM-227ZN	E.CAPACITOR
	C042	QCBB1HK-331Y	C.CAPACITOR
	C043	QETC1HM-335ZN	E.CAPACITOR
	C045	QETB1AM-476	E.CAPACITOR
	C046	QETC1HM-335ZN	E.CAPACITOR
	C047	QCC31EM-223ZV	C.CAPACITOR
	C048	QFP31HJ-471ZM	PP.CAPACITOR
	C049	QETC1HM-474ZN	E.CAPACITOR
	C050	QETC1HM-474ZN	E.CAPACITOR
	C051	QETC1EM-475ZN	E.CAPACITOR
	C053	QCC31EM-103ZV	C.CAPACITOR
	C054	QCC31EM-103ZV	C.CAPACITOR
	C055	QETC1HM-474ZN	E.CAPACITOR
	C056	QETC1HM-474ZN	E.CAPACITOR
	C058	QCSB1HM-1R5Y	C CAPACITOR
	C059	QCBB1HK-101Y	C.CAPACITOR
	C060	QCC11EM-123V	C CAPACITOR
	C080	QCS31HJ-4R0Z	C.CAPACITOR
	C081	QCS31HJ-390Z	C CAPACITOR
	C082	QCS31HJ-3R0Z	C.CAPACITOR
	C083	QCS31HJ-4R0Z	C.CAPACITOR
	D003	HSS104TJ	SI DIODE
	D004	MA346-TA5	VC DIODE
	D007	HSS104TJ	SI DIODE
	D008	HSS104TJ	SI DIODE
	D009	HSS104TJ	SI DIODE
	IC01	TA7358P(N)	IC
	IC02	AN7222N	IC
	IC03	AN7410N	IC

⚠	REF. NO	PARTS NO.	PARTS NAME
	L001	V03105-029	OSC COIL
	L002	VQF1B12-007	RF COIL
	L003	VQL7T19-301	OSC COIL
	L004	VQB010B-309T	BAR ANTENA
	L005	VQM7U01-301	OSC COIL
	L007	VQS7U01-305	OSC COIL
	L008	VQR7002-302	RF COIL
	L009	V03047-6T	COIL
	L010	VQP0012-100	INDUCTOR
	Q001	2SC1923(O)E2	TRANSISTOR
	Q002	2SC3330(S,T)AC	TRANSISTOR
	R001	QRD161J-470YT	C RESISTOR
	R002	QRD161J-220YT	C RESISTOR
	R003	QRD161J-104YT	C RESISTOR
	R004	QRD161J-104YT	C RESISTOR
	R005	QRD161J-184YT	C RESISTOR
	R006	QRD161J-471YT	C RESISTOR
	R007	QRD161J-561YT	C RESISTOR
	R008	QRD161J-332YT	C RESISTOR
	R009	QRD161J-560YT	C RESISTOR
	R013	QRD161J-101YT	C RESISTOR
	R014	QRD161J-222YT	C RESISTOR
	R020	QRD161J-223YT	C RESISTOR
	R021	QRD161J-102YT	C RESISTOR
	R022	QRD161J-473YT	C RESISTOR
	R023	QRD161J-103YT	C RESISTOR
	R024	QRD161J-103YT	C RESISTOR
	R025	QRD161J-103YT	C RESISTOR
	R026	QRD161J-560YT	C RESISTOR
	R027	QRD161J-103YT	C RESISTOR
	R031	QRD161J-222YT	C RESISTOR
	R032	QRD161J-222YT	C RESISTOR
	R037	QRD161J-104YT	C RESISTOR
	R038	QRD161J-563YT	C RESISTOR
	R080	QRD161J-684YT	C RESISTOR
	R081	QRD161J-563YT	C RESISTOR
	S001	QSS8401-001	SLIDE SWITCH
	S002	QSS1201-026	SLIDE SWITCH
	TC05	QAT2002-001S	T.CAPACITOR
	TC06	QAT2002-001S	T.CAPACITOR
	T001	VQT7F12-109	IFT
	T002	VQT7A21-103	IFT
	VC01	QAP1224-520V	V.CAPACITOR
	VC05	QAT5001-003S	T.CAPACITOR
	VR01	QVZ3512-502	V.RESISTOR

Comparison Table of RC-X3 G and RC-X3 B/E

⚠	REF. NO.	PARTS NO.		PARTS NAME
		RC-X3 G	RC-X3 B/E	
	D004	—	MA346-TAS	VC Diode
	TC09	QAT3620-200M	—	T. Capacitor
	R003	—	QRD161J-104YT	C. Resistor
	R004	—	QRD161J-104YT	C. Resistor
	R012	QRD161J-102YT	—	C. Resistor
	C003	QCS31HJ-240Z	QCS31HJ-220Z	C. Capacitor
	C012	—	QCT30CH-5R6Y	C. Capacitor
	C013	QCT30CH-6R8Y	QCT30CH-200Y	C. Capacitor
	C014	QCT25CH-270Z	QCT30UJ-6R8Y	C. Capacitor
	C015	—	QCC31EM-103ZV	C. Capacitor
	C018	QCSB1HJ-330Y	QCBB1HK-101Y	C. Capacitor
	C020	QCSB1HK-5R6Y	—	C. Capacitor
	C023	—	QCSB1HJ-300Y	C. Capacitor
	C058	QCSB1HK-2R2Y	QCSB1HM-1R5Y	C. Capacitor
	C080	QCS31HJ-3R0Z	QCS31HJ-4R0Z	C. Capacitor
	C081	QCS31HJ-820Z	QCS31HJ-390Z	C. Capacitor
	C082	—	QCS31HJ-3R0Z	C. Capacitor
	C083	QCS31HJ-680Z	QCS31HJ-4R0Z	C. Capacitor

12 Exploded View of Mechanism Assembly

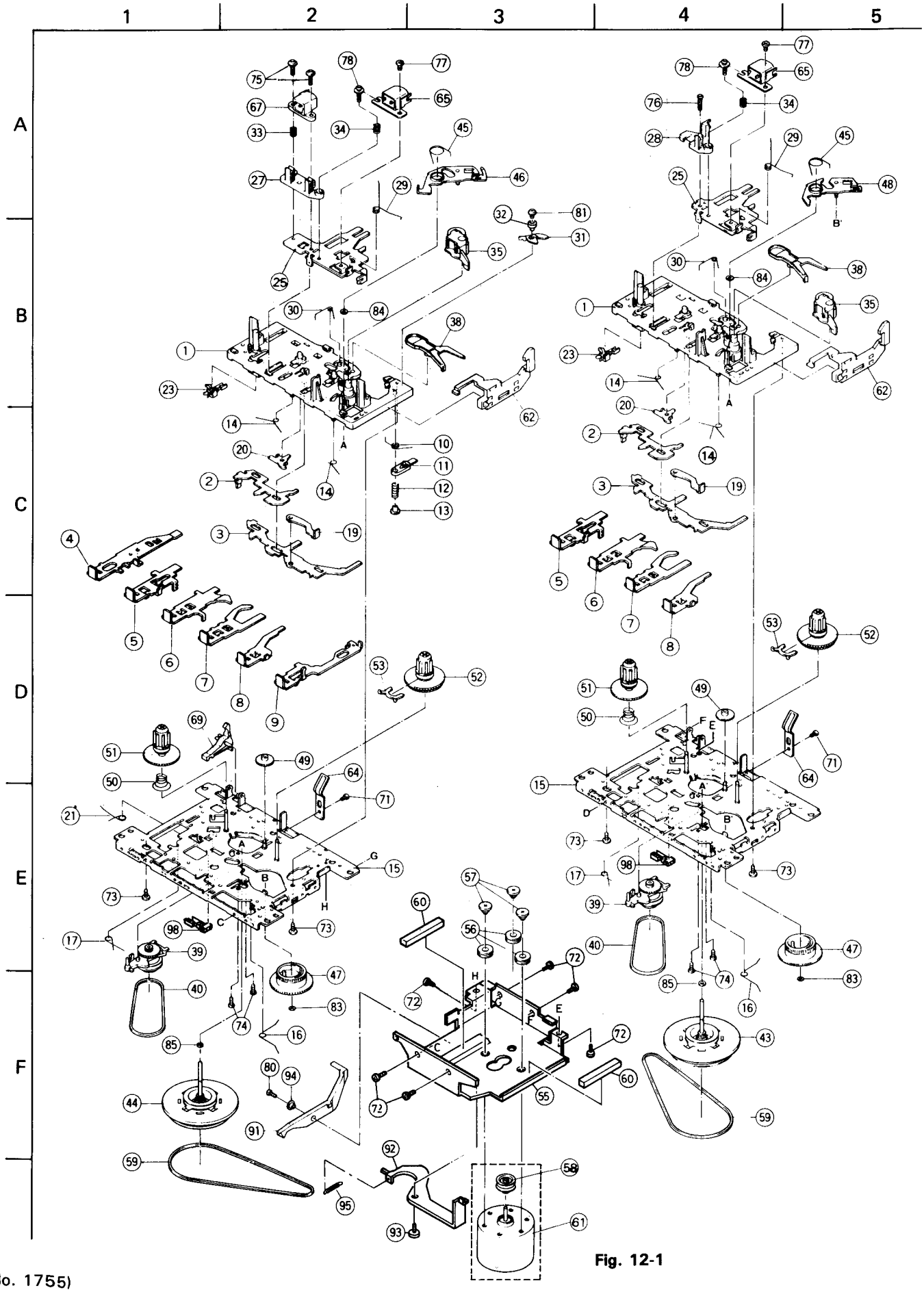


Fig. 12-1

■ Mechanism Assembly Parts List

⚠ Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	192114301T	BASE ASS'Y		1
		192114301T	BASE ASS'Y		1
	2	19211409T	SWITCH PLATE	FOR BASE ASS'Y	1
		19211409T	SWITCH PLATE		1
	3	19211438T	LOCK CAM	FOR BASE ASS'Y	1
		19211438T	LOCK CAM		1
	4	19211422T	BUTTON LEVER	FOR REC.	1
	5	19211423T	BUTTON LEVER	FOR PLAY	1
		19211423T	BUTTON LEVER	FOR PLAY	1
	6	19211424T	BUTTON LEVER	FOR REWIND	1
		19211424T	BUTTON LEVER	FOR REWIND	1
	7	19211425T	BUTTON LEVER	FOR F.FORWARD	1
		19211425T	BUTTON LEVER	FOR F.FORWARD	1
	8	19211426T	BUTTON LEVER	FOR STOP	1
		19211426T	BUTTON LEVER	FOR STOP	1
	9	19211427T	BUTTON LEVER	FOR PAUSE	1
	10	19211413T	TORSION SPRING		1
	11	19211410T	PAUSE LEVER		1
	12	19211412T	SPRING		1
	13	19211411T	PAUSE STOPPER		1
	14	19211414T	TORSION SPRING	FOR STOP	1
		19211414T	TORSION SPRING	FOR F.F.,REW.	1
		19211414T	TORSION SPRING	FOR PAUSE,STOP	1
		19211414T	TORSION SPRING	FOR FF.,REW.	1
	15	192101501T	CHASSIS ASS'Y		1
		192101501T	CHASSIS ASS'Y		1
	16	19211416T	TORSION SPRING	EJ.SL.LEVER DECK B	1
		19211416T	TORSION SPRING		1
	17	19211417T	TORSION SPRING	FOR PLAY	1
		19211417T	TORSION SPRING	FOR PLAY	1
	19	1821011159T	E.KICK LEVER	FOR LOCK CAM	1
		1821011159T	E.KICK LEVER		1
	20	19211420T	STTOPPER	FOR PINCH ROLLER	1
		19211420T	STTOPPER		1
	21	19211421T	TORSION SPRING	FOR REC.	1
	23	6401011149T	LEAF SWITCH	FOR BASE ASS'Y	1
		6401011149T	LEAF SWITCH		1
	25	19210302T	HEAD PANEL		1
	26	19210301T	HEAD PANEL	FOR R/P HEAD MOUNT	1
	27	19210306T	HEAD BASE		1
	28	19210304AT	HEAD BASE	FOR R/P HEAD	1
	29	19210303T	TENSION SPRING	FOR HEAD PANEL	1
		19210303T	TENSION SPRING		1
	30	19211418T	TORSION SPRING	FOR BASE ASS'Y	1
		19211418T	TORSION SPRING		1
	31	19211434T	P.ROLLER ARM		1
	32	19211437T	P ARM COLLAR	FOR DECK A	1
	33	18210308T	SPRING	FOR DECK A	1
	34	18210307T	AZIMUTH SPRING	FOR R/P,PB HEAD	1
		18210307T	AZIMUTH SPRING	FOR DECK A	1
	35	192104301T	P.ROLLER ASS'Y		1
		192104301T	P.ROLLER ASS'Y		1
	38	19212604T	SENSING LEVER	FOR BASE ASS'Y	1
		19212604T	SENSING LEVER		1
	39	192107302T	RF CLUTCH ASS'Y	FOR CHASSIS ASS'Y	1
		192107302T	RF CLUTCH ASS'Y		1
	40	19210703T	REW/F.F. BELT		1
		19210703T	REW/F.F. BELT		1
	43	192109304T	FLYWHEEL ASS'Y		1
	44	192109303T	FLYWHEEL ASS'Y	FOR DECK B	1

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	45	19212605T	TORSION SPRING	FOR GEAR PLATE ASS'Y	1
		19212605T	TORSION SPRING		1
	46	192126502T	GEAR PLATE ASY.	FOR DECK A	1
	47	19212602T	CAM GEAR		1
		19212602T	CAM GEAR		1
	48	192126501T	GEAR PLATE ASY.	FOR CAM GEAR DECK A	1
	49	18211070T	F.FORWARD GEAR	FOR CHASSIS ASS'Y	1
		18211070T	F.FORWARD GEAR		1
	50	18291010T	BACK TENS. SP.	FOR SUPPLY REEL	1
		18291010T	BACK TENS. SP.		1
	51	192105302T	SUPPLY REEL ASY		1
		192105302T	SUPPLY REEL ASY		1
	52	192105301T	T-UP REEL ASS'Y		1
		192105301T	T-UP REEL ASS'Y		1
	53	19210506T	SENSER	FOR TAKE UP REEL	1
		19210506T	SENSER		1
	55	19211211T	MOTOR BRACKET		1
	56	18201306T	RUBBER CUSHION	FOR MOTOR BRACKET	3
	57	18211202T	COLLAR SCREW	MOTOR BKT+MOTOR	3
	58	19211205T	MOTOR PULLEY		1
	59	18211221T	MAIN BELT		2
	60	19211212T	MAT	FOR MOTOR BRACKET	2
⚠	61	SHU9L02,53	MOTOR		1
	62	19211302T	EJ. SLIDE LEVER		1
		19211302T	EJ. SLIDE LEVER		1
	64	18291001T	PACK SPRING		1
		18291001T	PACK SPRING		1
	65	VGH0421-020	R / P HEAD		1
		VGH0421-020	R / P HEAD		1
	67	LE15A-C1	E HEAD	FOR DECK A	1
	69	18211069T	REC.SAF.LEVER	FOR DECK A	1
	71	91790000T	TAPPING SCREW	FOR PACK SPRING	1
		91790000T	TAPPING SCREW		1
	72	91800000T	TH.TAP.SCREW	FOR LUG+MOTOR BKT	6
	73	96790000T	TAPPING SCREW	BASE ASS'Y+CHASSIS	2
	74	99991809T	SPECIAL SCREW	FOR FLYWHEEL ASS'Y	2
		99991809T	SPECIAL SCREW		2
	76	90040000T	SCREW(M2 X 6)	FOR HEAD BASE	1
	77	91150000T	SCREW(M2 X 3)	FOR R/P HEAD	1
		91150000T	SCREW(M2 X 3)		1
	78	99220000T	SCREW(M2 X 7)	FOR R/P HEAD:AZIMUTH	1
		99220000T	SCREW(M2 X 7)		1
	80	91820000T	SCREW	FOR P.KICK LEVER B	1
	81	99992018T	SPECIAL SCREW	FOR DECK A	1
	83	94220000T	POLY.CUT WASHER	FOR CAM GEAR	1
		94220000T	POLY.CUT WASHER		1
	84	99990313T	POLY.CUT WASHER	FOR GEAR PLATE ASS'Y	1
		99990313T	POLY.CUT WASHER		1
	85	97860000T	POLY WASHER	FOR FLYWHEEL ASS'Y	1
		97860000T	POLY WASHER		1
	90	98210000T	SPECIAL SCREW	FOR DECK A	2
	91	19211209T	P KICK LEVER B	FOR M.BRACKET DECK B	1
	92	18211268T	P.KICK LEVER	FOR M.BRACKET DECK A	1
	93	18211223T	COLLAR SCREW	FOR P.K.LEVER DECK A	1
	94	18211265T	COLLAR	FOR P.K.LEVER DECK B	1
	95	18211225T	SPRING	FOR P.KICK LEVER	1
	98	640101161T	LEAF SWITCH	FOR CHASSIS ASS'Y	1
		640101161T	LEAF SWITCH		1

13 Exploded View of Enclosure Assembly

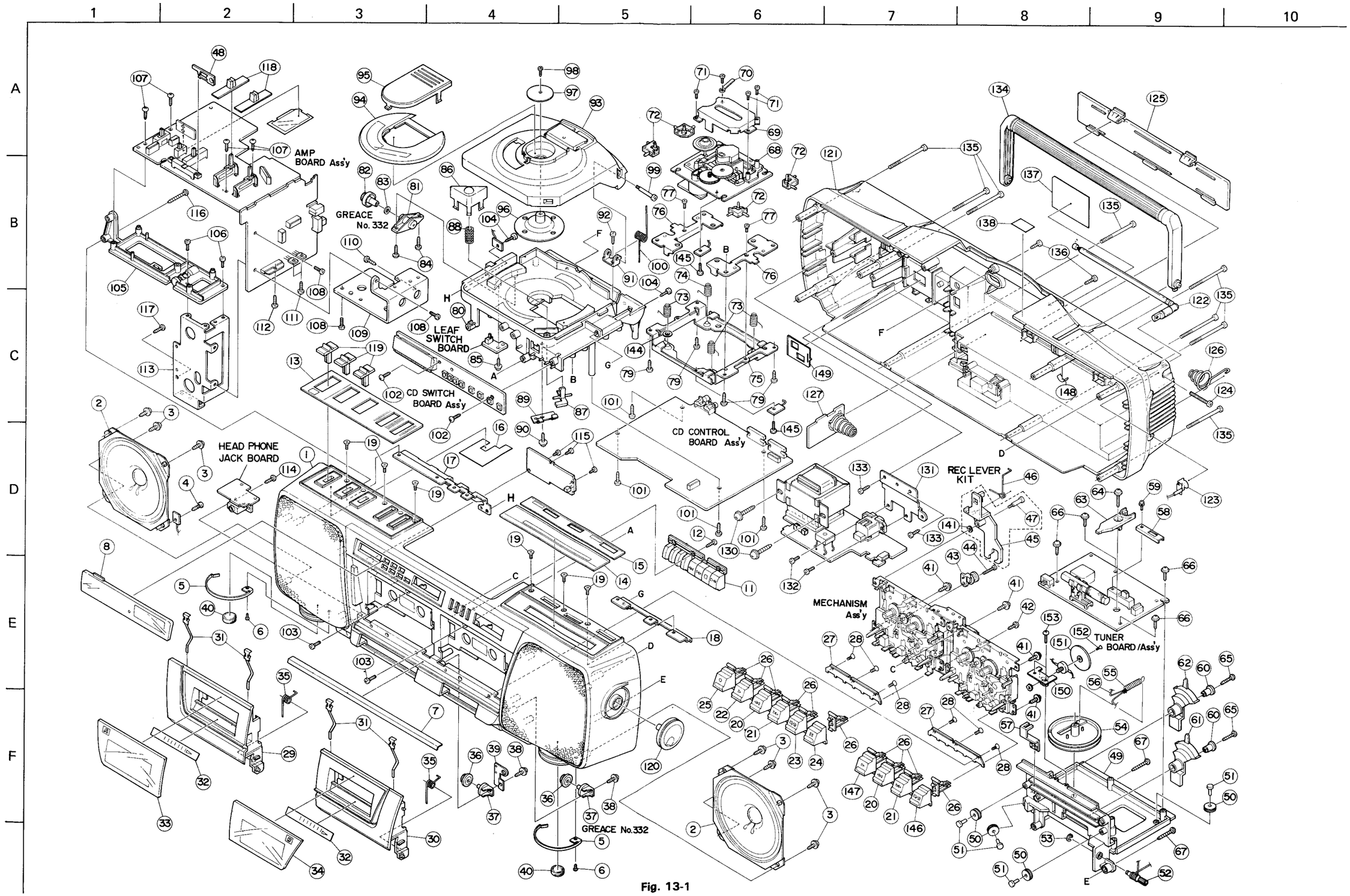


Fig. 13-1

■ Enclosure Assembly Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VJC1702-10B	FRONT C. ASS'Y		1
	2	EAS12P435A-1	SPEAKER		2
	3	GBSF3008Z	TAPPING SCREW	FOR SPEAKER	6
	4	SBSF3010Z	SCREW		1
	5	VJD5138-001	FOOT BAND		2
	6	SBSF2606Z	SCREW	FOR FOOT BELT	2
	7	VJD3732-101	C.BUTTON PLATE		1
	8	VJD3733-101	LCD LENS		1
	9	GBSF3008Z	TAPPING SCREW		1
	11	VXP3249-002	CD BUTTON		1
	12	SBSF2606Z	SCREW	CD BUTTON	1
	13	VJD3734-102	CONTROL PLATE	RC-X3 B/E	1
		VJD3734-103	CONTROL PLATE	RC-X3 G	1
	14	VJK3438-103	DIAL SCALE	RC-X3 B/E	1
		VJK3438-104	DIAL SCALE	RC-X3 G	1
	15	VJD3735-202	MODE PLATE		1
	16	VYTM407-001	SHIELD		1
	17	VYH6725-001	BRACKET (L)		1
	18	VYH6726-001	BRACKET (R)		1
	19	SSST2606Z	SCREW	FOR BRACKET	6
	20	VXP3250-002	BUTTON	REW	1
	21	VXP3250-003	BUTTON	FF	2
	22	VXP3250-004	BUTTON	PLAY	2
	23	VXP3250-005	BUTTON	STOP	1
	24	VXP3250-006	BUTTON	PAUSE	1
	25	VXP3250-001	BUTTON	REC	1
	26	VKS4843-001	BUTTON LEVER		10
	27	VKL5960-001	BUTTON BRACKET		2
	28	SSSF2608Z	SCREW	FOR BUTTON BRACKET	6
	29	VJT2183-101	CASSETTE DOOR	FOR LEFT SIDE	1
	30	VJT2183-002	CASSETTE DOOR	FOR RIGHT SIDE	1
	31	VKY4180-001	CASSETTE SPRING	FOR CASSETTE DOOR	4
	32	VJD5139-001	DOOR PLATE	FOR CASSETTE DOOR	2
	33	VJT3248-005	DOOR LENS	FOR CASSETTE DOOR	1
	34	VJT3248-004	DOOR LENS	FOR CASSETTE DOOR	1
	35	VKW4754-001	DOOR SPRING	FOR CASSETTE DOOR	2
	36	VYH5601-001	GEAR	FRONT CABI.+C.DOOR	2
	37	VYH5602-001	DAMPER HOLDER	FRONT CABI.+C.DOOR	2
	38	GBSF3012Z	SCREW	FOR DAMPER HOLDER	2
	39	VYH6768-001	SUPPORT BRACKET	FOR DAMPER HOLDER	1
	40	VJF4003-001	FOOT		2
	41	GBSF3012Z	SCREW	MECHA.+F.CABINET	4
	42	SDST3008Z	SCREW	MECHA.+F.CABINET	1
	43	VYH6727-002	COLLAR	FOR MECHA.	1
	44	SDST2614Z	SCREW	FOR MECHA.	1
	45	VYH3480-002	REC LEVER		1
	46	VKZ4380-003	SPECIAL SCREW	FOR REC.LEVER	1
	48	VYH6728-001	REC ARM		1
	49	VYH1177-002	TUNER CHASSIS		1
	50	V40409-2	ROLLER	FOR TUNER CHASSIS	4
	51	VYH4034-003	STUD	FOR TUNER CHASSIS	4
	52	VYH4009-009	TUNING SHAFT	FOR TUNER CHASSIS	1
	53	REE3000X	E.WASHER	FOR TUNING SHAFT	1
	54	VYH3267-001	DIAL DRUM		1
	55	50153-3	SPRING	FOR DIAL DRUM	1
	56	VHR2ZK9-05AT	DIAL STRING	FOR DIAL DRUM	0
	57	VJN4128-003	NEEDLE	FOR TUNER CHASSIS	1
	60	VYH6730-001	STUD	FOR FM BAND MODE	2
	61	VYH3481-001	BAND LEVER		1
	62	VYH3482-001	MODE LEVER		1
	63	VYH3483-001	BAND ARM	FOR TUNER BOARD	1
	64	GBSF3012Z	SCREW	FOR BAND ARM	1
	65	SBSF2616Z	SCREW	FOR STUD	2
	66	GBSF3012Z	SCREW	FOR TUNER BOARD	4
	67	SBSF3020Z	SCREW	FOR TUNER CHASSIS	2
	68	KSM-150B-AJ	CD MECHA		1
	69	VJD5091-001	PICK COVER		1
	70	VKZ4001-008	WIRE HOLDER		1
	71	SDSF2006M	SCREW	FOR PICK COVER	4
	72	VYH6596-001	CD CUSHION		4
	73	VKW4693-001	CONICAL SPRING	FOR CD SUB CHASSIS	3
	74	VKW4693-002	CONICAL SPRING	FOR CD SUB CHASSIS	1
	75	VYH6731-001	SUB CHASSIS	FOR CD MECHA.	1
	76	VYH6732-002	HOLDER	FOR SUB CHASSIS	2
	77	SDST2606Z	SCREW	FOR SUB CHASSIS	2

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	79	SBSF3010Z	SCREW	CD ASS'Y+CD CASE	4
	80	VJC1705-002	CD CASE		1
	81	VYH4845-001	DAMPER HOLDER	FOR CD CASE	1
	82	VYH4769-002	GEAR	FOR DAMPER HOLDER	1
	83	VYSS201-008	SPACER	FOR DAMPER HOLDER	1
	84	SBSF3010Z	SCREW	FOR DAMPER HOLDER	2
	85	GBSF3008Z	TAPPING SCREW	LEAF SW.+CD CASE	1
	86	VXP4774-001	EJECT BUTTON	FOR CD EJECT BUTTON	1
	87	VYH6736-001	LOCK ARM	FOR CD CASE	1
	88	VKW3001-238	COMP SPRING	FOR CD EJECT BUTTON	1
	89	VYH6737-001	PLATE	FOR CD CASE	1
	90	GBSF3008Z	TAPPING SCREW	FOR PLATE+CD CASE	1
	91	VYH6754-001	BRACKET	FOR CD DOOR	1
	92	SDSF3010Z	TAP.SCREW	FOR BRACKET+CD CASE	1
	93	VJT1014-001	CD DOOR		1
	94	VJT3250-001	CD LENS	FOR CD DOOR	1
	95	VJD5140-001	CD ORNAMENT	FOR CD DDOR	1
	96	VYH6603-00A	CLAMPER ASS'Y	FOR CD DDOR	1
	97	VYH6517-001	CLAMPER PLATE	FOR CLAMPER ASS'Y	1
	98	SDSF2006M	SCREW	CLAMPER PLATE+DOOR	1
	99	VKZ4380-001	SPECIAL SCREW	COR CD DOOR	1
	100	VKW4756-002	CD DOOR SPRING	CD DOOR+DOOR BRACKET	1
	101	SBSF3010Z	SCREW	FOR CD CONTROL BOARD	4
	102	SBSF3010Z	SCREW	FOR CD SWITCH BOARD	2
	103	SDSF3020M	SCREW	CD CASE+FRONT CABI.	2
	104	DPSP3010Z	SCREW	FOR CD BRACKET(L,R)	2
	105	VYH3484-002	AMP CHASSIS		1
	106	SDST3008Z	SCREW	FOR AMP.CHASSIS	2
	107	SBSF3010Z	SCREW	FOR AMP.BOARD	4
	108	SDST3008Z	SCREW	FOR AMP.BOARD	3
⚠	109	VYH3485-001	RADIATION		1
	110	SBSB3010Z	SCREW	FOR AMP.BOARD	1
	111	SBSB3010Z	SCREW	FOR POWER TRANSISTOR	2
	112	SBSB3010Z	SCREW	FOR POWER IC	1
	113	VYH6738-001	BRACKET	FOR AMP.CHASSIS	1
	114	GBSF3012Z	SCREW	FOR HEAD PHONE	1
	115	SDSF2606Z	SCREW	FOR TIMER BOARD	3
	116	SBSF3020Z	SCREW	FOR AMP.CHASSIS	1
	117	GBSF3012Z	SCREW	FOR AMP.BRACKET	2
	118	VXS4293-001	SLIDE KNOB	FOR VOLUM	2
	119	VXS4294-001	SLIDE KNOB	POWER,SELECT,FUNC.	3
	120	VXL4320-001	TUNING KNOB		1
	121	VJC1706-104	REAR CABINET	RC-X3 B	1
		VJC1706-103	REAR CABINET	RC-X3 G	1
		VJC1706-102	REAR CABINET	RC-X3 E	1
	122	VJA3006-00E	ROD ANTENNA		1
	123	VYH6739-001	TERMINAL LUG	FOR ROD ANTENNA	1
	124	SDSP3020N	SCREW	FOR ROD ANTENNA	1
	125	VJC2016-008	BATTERY COVER	BLACK COLLAR	1
	126	VYH5657-001	BATTERY SPRING	FOR REAR COVER	1
	127	VYH5483-001	BATTERY SPRING	FOR REAR CABINET	1
	130	GBSF4020Z	SCREW	FOR POWER TRANS.	2
	131	VYH6740-002	JACK HOLDER		1
	133	GBSF3008Z	TAPPING SCREW	FOR AC JACK HOLDER	3
	134	VJH4100-00A	HANDLE ASS'Y		1
	135	SDSF3050Z	SCREW	FRONT+REAR CABINET	8
	136	SDSF3016N	SCREW	FRONT+REAR CABINET	2
	137	VYN5125-105	NAME PLATE	RC-X3B	1
		VYN5125-106	NAME PLATE	RC-X3 E	1
		VYN5125-107	NAME PLATE	RC-X3 G	1
	138	VND4317-002	CAUTION SEAL	FOR REAR CABINET	1
	146	VXP3250-007	BUTTON	STOP:B MECHA	1
	147	VXP3250-008	BUTTON	PLAY:B MECHA	1
	148	VYSA1R3-035	SPACER	FOR ANT.WIRE	4
	149	VYH6552-003	AC SLIDER******	110-120/220-240V	1
	150	VYH6743-001	BRACKET	FOR FINE TUNING	1
	151	VXL4187-003	KNOB	FOR FINE TUNING	1
	152	SSSP2004Z	SCREW	FOR FINE TUNIG KNOB	1
	153	SSSF3010Z	SCREW	FINE TUNING BRACKET	2
	154	SDST2606Z	SCREW	FOR EARTH	2
		VND4220-001	LASER CAUTION	FOR CD SECTION	1
		VND4221-001	CLASS 1 LABLE	FOR REAR CABINET	1
		E71541-001	E.I.LASER MARK	FOR CD SECTION	1
		VND4887-001	CAUTION LABEL	FOR REAR CABINET	1

14 Packing Illustration and Parts List

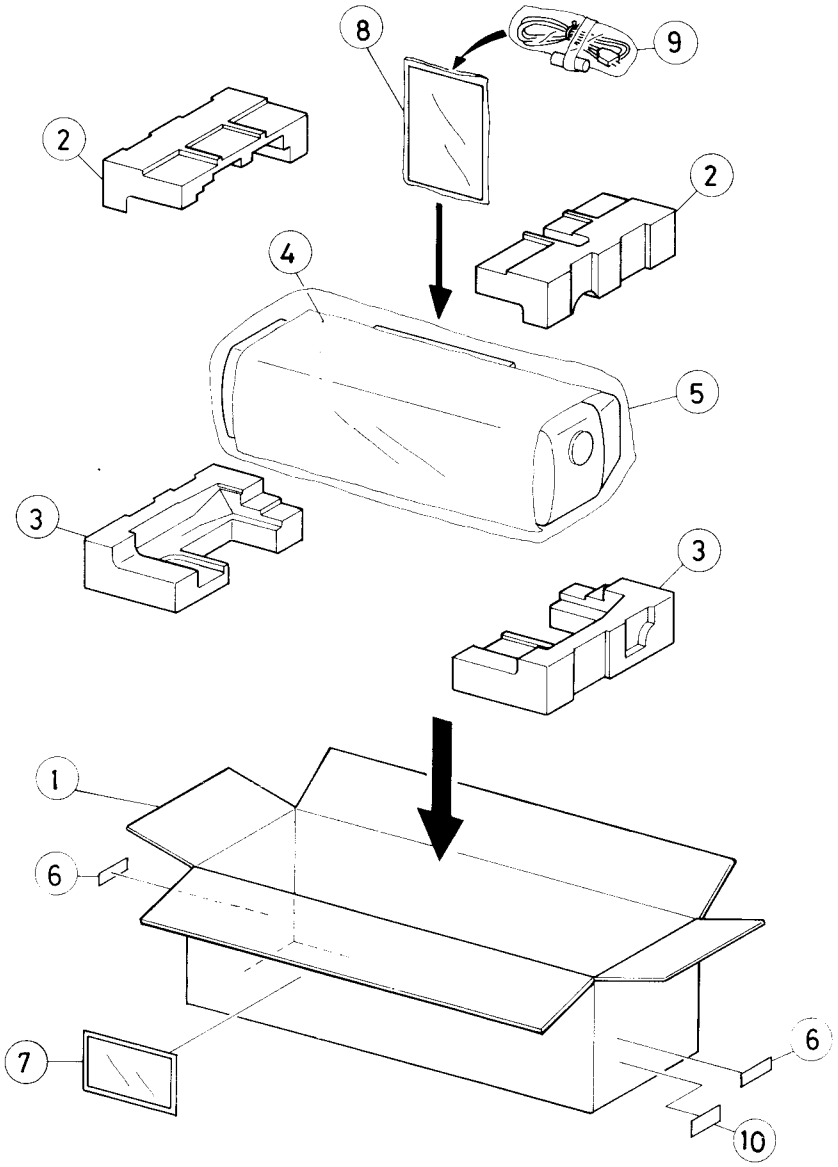


Fig. 14-1

■ Packing Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPC5125-101	Carton		1
	2	VPH1430-001	Cushion (U)	For Upper	1
	3	VPH1431-001	Cushion (L)	For Lower	1
	4	VPK4002-021	Sheet	For RC-X3 B/E	1
	5	VPE3005-032	Poly Bag	For RC-X3 B/E	1
	6	VND3044-004	Serial Ticket	Green: RC-X3 B	2
		VND3044-003	Serial Ticket	Blue: RC-X3 E	2
		VND3044-005	Serial Ticket	Red: RC-X3 G	2
	7	E66416-003	Envelope	For Special Reply Card	1
	8	VPE3005-007	Poly Bag	For Instruction Book	1
	9	QPGA012-02505	Poly Bag	for Power Cord	1
	10	VND4305-001	Patt Label		

16 Accessories

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Parts No.	Parts Name	Remarks	Q'ty
	VNN5125-211	Instruction Book		1
	VNN5125-441	Instruction Book	RC-X3 E	1
	E43486-340B	Safety Instruction Sheet	RC-X3 B	1
	BT20060	Warranty Card	RC-X3 B	1
	BT20066	Warranty Card	RC-X3 B/G	1
	BT20065	Warranty Card	RC-X3 G	1
	PU36158	FTZ INF. Sheet	RC-X3 G	1
	QMP9017-009BS	Power Cord	RC-X3 B	1
	QMP3950-183	Power Cord	RC-X3 E/G	1

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Printed i
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